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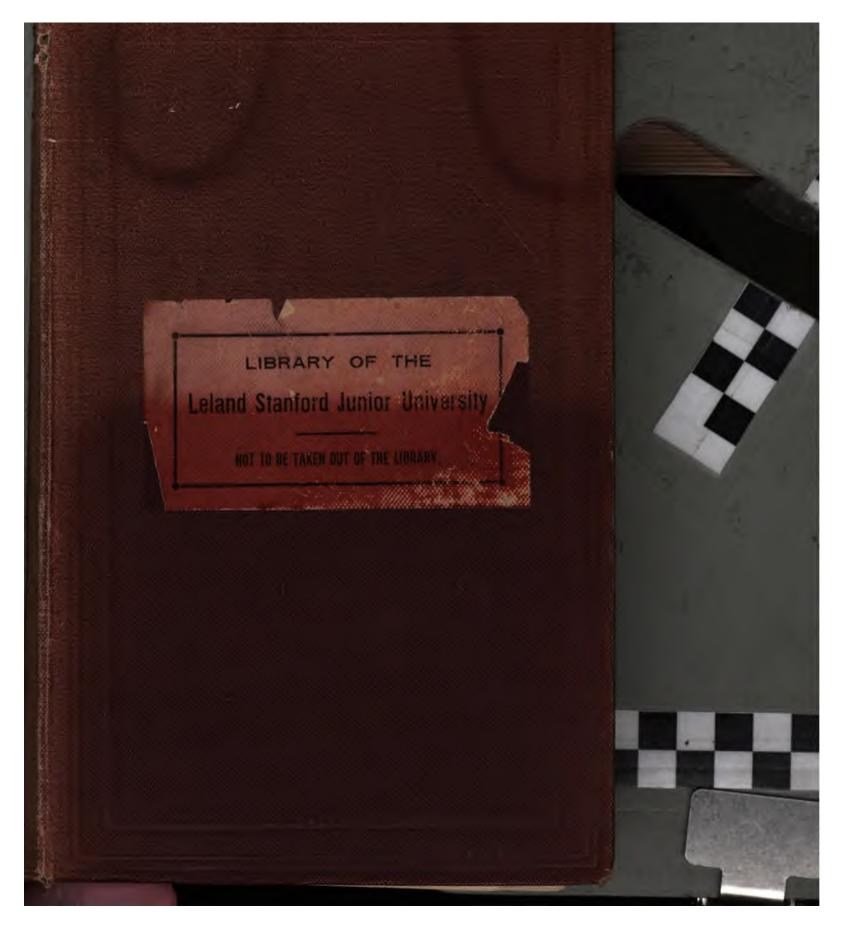
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OF.

GREEK ETYMOLOGY

By GEORG CURTIUS

PROFESSOR IN THE UNIVERSITY OF LEIPZIG

fifth Edition

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III.

THIRD BOOK

IRREGULAR REPRESENTATION OF SOUNDS

τό μεν ζητούμενον, άλωτόν εκφεύγει δε τάμελούμενον. Soph. Oed. Rex 110.

1.



BOOK III.

IRREGULAR REPRESENTATION OF SOUNDS.

In the second book 671 words and families of words are 407 quoted, in which we thought we could establish the regular representation of the Indo-Germanic sounds, by the corresponding Greek sounds, as it is stated on p. 82 ff. and in the table on p. 128 ff. As it is not unimportant to form a clear conception of the wide extent to which the rule holds good, before we pass on to consider the exceptions, we will begin our present task with a short retrospect. In these investigations, as well as elsewhere, numerical proportions contribute to the formation of more definite ideas. Though these can be only approximate, inasmuch as the separation of individual roots and stems rests upon no principle which can be very exactly defined, it is impossible to deny to them a certain value. But further, the greater part of the roots and words quoted serve not only as an instance of a single, but in the great majority of cases to establish a double or triple representation of sounds. For instance, rt. δακ (No. 9) has been quoted only under κ , but it may serve just as well as an example for δ and for α . Thus the 671 articles contain a considerably larger number of examples of the regular representation of sounds. If we pay no regard at all to the vowels and only consider the consonants, we get the following general result.

¹ To the number 619, with which the numbering closes, we have to add sixty articles, which, in order not to disturb the original numbering, are denoted by letters (15 b etc.); while on the other hand the number 73 has been omitted by an oversight, and seven articles have in subsequent editions been dropped or combined with others.

4

408]	ln ε	ıddi	tion to	the 134 e	xample	es qu	oted f	or k we	may	add
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The grand total is therefore 1179

certainly a considerable number, especially as regard is paid here only to the agreement of the consonants in stem-syllables, while this is excluded of course in derivative or inflexional syllables, however clearly recognizable, and the case is the same with the agreement of the vowels. And as almost all the examples quoted give rise to a greater or less number of derived words which are not taken into calculation, we may estimate tolerably well how important a part of the Greek vocabulary follows the regular representation of sounds.

But the numbers here given have also another value: they give us a clear idea of the relative frequency of the several consonants. It is noteworthy that in stem-syllables the most common of the consonants which have been faithfully pre-

¹ The greatly diminished number of instances of F, as compared with that given in former editions, is explained by the fact that I have now included only cases in which there is definite evidence or indications of this sound within the Greek language.

served are ρ , κ , λ , π , σ , μ , δ , τ , ν , γ , and that too in the order here given, while β can only be proved to have been original in ten examples. From this last fact, we are tempted to doubt whether the sound b existed before the time of the separation 409 of languages, and whether it did not possibly establish itself first in a later period of a severance, which only became complete by degrees. (Cp. Grassmann 'Ztschr.' xii. 122.) This is the reason why in the table on p. 82 a note of interrogation is appended to b, where it is given as an Indo-Germanic sound 1. Also in examining the irregular transitions of sound, the several numerical proportions of the regular substitution will be of importance to us, that we may measure by the help of these the extent of the sporadic transitions. In etymology, which admits of so much doubt in different directions, we cannot afford to neglect the advantage supplied by definite numbers.

We do not, however, by any means intend to plunge any deeper into calculations of this kind, though they are not unimportant. This is rather the place, seeing that here we are on the point of passing from the rule to the exception, to enter generally into the question of the possibility of the exception, and, where we can, to find a principle for the deviations from the rule.

We may consider it as proved that language is on the whole ruled by fixed laws and that such laws especially and preeminently concern that department of language with which we have here to do, the world of sounds, which is but little affected by the capricious action of the self-conscious spirit. But on p. 23 we recognized as the fundamental direction of this change, the downward tendency, the diminution, or, as we thought we might best describe it, the 'weathering away' of sounds. For in fact it is very natural to compare these with rocks which are gradually diminished and wasted by atmospheric influences, and yet retain so stubbornly their core; the more so that by means of this figure we oppose an incorrect theory of growing and sprouting, which is justified for another depart-

The b as an Indo-Germanic sound has found a champion in Bickell 'Ztschr.' xiv. 425. But even he can only point to a small number of words, in which it is probable that the b existed originally

ment of the life of language. The sounds of language as such do not increase but diminish, they do not grow, but wear out, and get rubbed off, or, to express it otherwise, after the structure of a nation's language has been on all essential points established, in the course of time the nation allows more and more of the phonetic value of words to be lost. Not as though this contradicted the ineffaceable connexion, which we felt bound to assume between the sounds which are united to form 410 words and the conceptions denoted by them. But a conception, which at the first 'outbreak' of the word required a full sounding phonetic form, was often adequately denoted, after the conception had once been firmly established, by a weaker group of sounds, an abbreviation as it were, or shadow of the original. Weakening is therefore the main principle of all phonetic change which is not occasioned either by the contact of sounds one with another, or by the purposes of the structure of language (p. 52 ff.)1. And this principle comes out clearly

1 Max Müller ('Lectures' ii. 176) uses for the phonetic phenomenon, which we call 'weathering away,' the expression 'phonetic decay,' and rightly regards as the cause of it a certain 'laziness of utterance or muscular relaxation.' But we can hardly follow him in believing it possible to distinguish from the phonetic changes, which thus arise, a second kind, which he denotes by the name of 'dialectic growth' or 'dialectic variation:' and still less can we assume that the source of this second phonetic change was an earlier, undefined 'pronunciation' of the sound. Indefiniteness of sound seems to me inconsistent with that forcible articulation which is especially characteristic of the oldest languages. Besides, dialectic differentiation never ceases. If the difference between the Skt. ap and the Lat. aqua were only to be explained by supposing that neither the guttural nor the labial was heard before the break-up of the primitive Indo-Germanic language, but something between the two, we should be obliged to assume likewise an undefined pronunciation for the Lat. aqua, inasmuch as we find apa replacing it again in Wallachian. Further, as a Teutonic h (Goth. ahva) corresponds to this p = qu, we should have to postulate a sound, fluctuating between p, k, and h. But where does any such sound exist? - A more hopeful task is rather that of referring all phonetic changes to one source. This very laziness of utterance, constantly increasing in the course of time, operated in different ways. And this difference we must try to explain from the nature of in the regular representation of the Indo-Germanic sounds in 411 Greek. For at any rate the two kinds of extensive phonetic change, which we denoted on p. 89 as 'splitting of sounds' and 'loss of sound,' are, considered more closely, a wearing off, and confusion. There is no need to prove this in the case of loss of sound. No one can doubt that there has been a diminution of sound, if the Greeks replaced the primitive vastu (No. 206) afterwards by ἄστυ, with the loss of the digamma. But the splitting of the vowel is also a wearing off. a is the vowel, the production of which requires the clearest and sharpest articulation, as we can see from the fact that in very many languages it passes in the mouths of those who are less educated, and in consequence have less control over their organs of speech, sometimes into o, sometimes into e, the physical reason of the change lying in an altered position of the mouth. From this natural characteristic of the a, we may regard it as a rule that it never arises in Greek and Latin from any other vowel.

language. We may assume in this case three main kinds of motives: firstly, the influence of neighbouring sounds; secondly, the production of involuntary by-sounds, or parasitic sounds; and then thirdly, a more intellectual principle, the desire to distinguish words. - Ascoli, in his 'Studj Critici' ii. p. 450 (German trans. p. 362) discusses the view on which I have always laid much stress, that weakening is the principle of all unconscious phonetic change. He regards 'infinite restrictions' of this principle as requisite; and I am far from failing to perceive that these relations are now shown to be much more varied than twenty years ago, when I first stated this doctrine, and perhaps looked upon it as much too easy of general application. But when an investigator like Ascoli, who of all living scholars perhaps possesses the most comprehensive and delicate knowledge of the established phonetic changes, himself admits that 'adaptations' and 'lightenings' (agevolamenti) are main sources of these changes, I believe that his view does not differ in principle very materially from mine, and, ready as I am to learn from him on details, I see no reason to abandon the extraordinary advantage which lies in maintaining a definite direction in a field which is anyhow difficult. - Compare now Whitney's valuable and discriminating essay 'On the Principle of Economy as a Phonetic Force' (Trans. of the American Philol. Assn. 1877). The principle Whitney puts in the place of economy is compatibility, 'ready co patibility in the processes of rapid speaking.'

The rule maintains its validity, though this is certainly not

without exceptions, even if really, as has been conjectured, the Locrian α of άμφόταρος, πατάρα and some other forms collected by Allen 'Stud.' iii. 219, arose from an earlier e under the influence of the ρ . The splitting of the old Indo-Germanic a into a, e, o, therefore, otherwise regarded, amounts to this, that in a number of instances a is retained, in a number more it is 'weathered away,' sometimes to e, sometimes to o. Of course, this splitting secures peculiar advantages, especially to the two Graeco-Italic languages, in which it is most regularly carried out (p. 92), and is used by the spirit of language for the most significant and various distinctions1; so that weathering away, otherwise regarded, presents itself as beautifying and enriching language. Only from the stand-point, which we here occupy, this change falls under the fundamental principle of the weakening of sound. The same is seen at the first glance to be the case with many other changes and alterations. Certainly no one could deny that the Greek v arose by weakening from the Indo-Germanic u; and hence that the Boeotians, who retained the u, have an advantage over the remaining Greeks in the retention of the more 412 vigorous sound, just as the majority of the Romance nations have over the French, who are in this respect to be compared to the Greeks. For there is no doubt that the pronunciation of the German ü, as it exists in its genuine form and fully brought out in the north of Germany, may be regarded as established for v, at any rate during the most flourishing period of the Greek language: at a later time this sound unquestionably underwent a further thinning, until at last it entirely coincided with i. ('Elucidations of my Greek Grammar' p. 25.) But the sound \ddot{u} arises from u by the tendency which the pure u shows to pass into i, the thinnest and lightest of the vowels, by the omission of the protrusion of the lips, needful, as physiologists show², to bring out the full u.

¹ Cp. my essay 'Comparative Philology in its relation to Classical Scholarship' [E. T.] p. 33. With regard to the attempt that has been made to regard the distinction of the hard vowels as older than the separation of the languages, I may refer to p. 93.

² Cp. Brücke 'Grundzüge der Physiologie und Systematik der

The weakening of u into v was the first instance in Greek of the appearance of that tendency, which has been constantly growing in the course of time, to give i a predominance over all vowels. Hence the change from u into v is the beginning of that itacism, which we find developed into such excessive monotony in modern Greek. (Cp. Heyse 'System der Sprachw.' p. 268.)

Among the specifically Greek transitions of sound already mentioned the change of an initial s into the spiritus asper was spoken of above. This transition is distinguished from those just discussed by the fact that it is not by any means universal. For, on the one hand, in ordinary Greek it is only found at the beginning of a word, and then always before vowels, and, on the other hand, it is not universally carried out even here. Sometimes the old σ is retained, either by the side of the spiritus asper: σῦς by the side of τς (No. 579), or without any such by-form: σάος (No. 570), σίαλον (No. 557), συριγέ (No. 519). But the number of stems, in which this is the case, is after all a very small one, compared with the many stems, which admit this change at the beginning before vowels. Of 28 stems with σ before a vowel, which have been discussed in the course of these investigations, the four just mentioned, and the traces of dialectic forms of the root $\delta \delta$ (No. 280) beginning with σ , are the only ones, in which the comparison of the cognate languages makes it probable that the sibilant originally stood immediately before the vowel. On the other hand there are eleven of them in which the loss of a consonant is probable (e.g. σίδηρος No. 293, σάλπιγέ No. 388, σιγή No. 572, co No. 578), one in which we can show that σ comes from τ ($\sigma \dot{v} = \tau v$), and two in which we can prove that there has 413 been softening from a harder group of sounds (σύν from ξύν, σώχω from ψώχω). We must therefore regard it as the exception for σ to be retained before vowels, while the rule common to all Greek dialects is for it to pass into the aspirate. In the same way we were obliged to regard the change from the two other spirants v and j to the aspirate, as falling under regular

Sprachlaute' 2nd edit. (Wien 1876) p. 24: though here it is the converse change from i to ii which is described.

change of sound. Hence as this change of sound thus forms part of a still wider analogy, inasmuch as we may ascribe to the Greek language a disinclination to spirants as a characteristic peculiarity, so on the other hand we gain support for the change of s into an aspirate in the fact that this sibilant is regularly dropped between two vowels. For instance, it has long been recognized that we must assume the intermediate form è-οντ, or, more clearly written, eh-ont as the step between the postulated participial stem έσ-οντ=Indo-G. asant, Skt. s-ant, Lat. s-ent, and the Homeric è-ov7. In the later Laconian dialect, such an internal aspiration appeared in the place of the σ retained by the other Greeks. El. ποήασσαι= ποιήσασθαι, Lac. Μῶά for Μῶσα, νικάάρ = νικάσας. Consequently the tendency of a sigma to change before vowels into the spiritus asper is one of the phonetic laws of Greek. This tendency recurs in the Persian family of speech, and in the Britannic branch of the Keltic languages1; some traces of it can be proved to exist in the Carinthian dialect of New High German (Kuhn 'Ztschr.' xii. 398); according to Max Müller ('Lectures' ii. 164) it is also found in some Polynesian languages; according to Ascoli 'Fonol.' 23 it occurs in the Italian dialect of Bergamo and in the French of Lothringen; and thus it is proved to be a tendency founded upon the nature of the human organs of speech, which evidently amounts to a weakening. For it needs no further argument to show that the rough breathing is a weaker sound, that it requires less force of articulation than the sigma. Our physiologists hardly regard h as a consonant, Sievers ('Grundzüge der Lautphysiologie 'p. 78) calls the h of the Greeks 'a toneless breathed insertion.' Thus the law of 'weathering away' is preserved here too, and modern linguistic science, in maintaining the unqualified priority of the sibilant, as against earlier unscientific theories of 'the thickening of the aspirate' or of 'a variation between s and h,' has not merely the majority of languages, but reason too on its side. The simple

¹ In Irish s is preserved when initial before vowels; but in the middle of words between vowels it passes into an aspirate as regularly as in Greek.

fact that Latin, as compared with Greek, retains this s, would 414 be sufficient to refute false views as to its derivation from Greek.

So far we have found all the changes of sound which we have examined, agreeing with the general tendency, which has been pointed out. On the other hand this does not seem to be the case with certain other changes, which have been also already mentioned. The aspirates especially have to be taken into consideration here. We saw that χ regularly corresponds to an Indo-Germanic gh, ϕ to a bh, θ to a dh. To understand this change of sound, we have first to determine the actual sound of the Greek aspirates.

The characters χ , θ , ϕ denote for the later Greeks not aspirates, but spirants; and if Priscian i. p. 12 (Hertz) is right in stating the only difference ('hoc solum interest') between the Greek \(\phi \) and the Latin f to be that the former was pronounced with closed lips ('fixis labris'), even in his time ϕ was a spirant, though not indeed like f and the modern Greek \(\phi \) a labio-dental, but rather an interlabial spirant. On the other hand the Greeks of the oldest time denoted the sounds, afterwards expressed by X and Φ , by KH and ΠH , a fact for which it is sufficient to refer to the Melian and Theraean inscriptions quoted by Kirchhoff ('Studien z. Geschichte des gr. Alphabets' 3rd edit. p. 54). For Θ indeed we find no TH, but we have now evidence of a ΘH in an inscription from Thera (Weil 'Mittheil. des d. arch. Instituts in Athen' ii. p. 73). On a very old inscription from Gortyn the aspirates χ and ϕ are represented by κ and π (Kirchhoff op. cit. p. 63). In this oldest time the Greek aspirates were certainly explosive sounds with an immediately following aspiration. The occurrence also on old Attic inscriptions of $X\Sigma$ for the later Ξ , $\Phi\Sigma$ for Y excludes all possibility, for the time at which this way of writing prevailed, that X and Φ were spirants. That the Greek aspirates were still really double sounds later than this in the classical period of Greek 1 415

¹ The very careful discussion by Wilh. Schmitz 'De aspiratarum Graecarum Latinarumque pronuntiatione,' which appeared as a 'Programm' in 1863 and is now accessible in his 'Beiträge zur Sprach. und Litteraturkunde' (Leipzig 1877) p. 110 ff., is quite on the lines

is proved by the following considerations, which it would, I think, be difficult to set aside:

- (1) the moveable nature of the breathing, which
- (a) is easily detached from the explosive element:
 πέ-φυ-κα for φε-φυ-κα, ἐ-τέ-θη-ν for ἐ-θέ-θην, τρέφ-ω from
 rt. θρεφ (cp. p. 49), and thus leaves behind the hard explosive sound;
- (b) but, though its position varies, does not do away with the feeling that forms like $\theta \rho \hat{\epsilon} \psi \omega$ and $\tau \rho \hat{\epsilon} \phi \omega$ belong to each other, and hence
- (c) in the various dialects attaches itself to different explosives in the same word: Ion. ἐνθαῦτα, ἐνθεῦτεν, κιθών, by the side of the ordinary Gk. ἐνταῦθα, ἐντεῦθεν, χιτών;
- (d) finally makes a tenuis, with which it is brought into immediate contact, into an aspirate: ἀφ' οὖ for ἀπ' οὖ, though in the popular language, regulated by no grammar, which is supplied us in the inscriptions, we find in this matter the most marked fluctuations between tenuis and aspirate, e.g. ἀφεστάλκαμεν and ἀπεσταλμένη on the same inscription (Keil 'Schedae epigraphicae' p. 11).

I doubt whether these phenomena are to be found in any language in the case of unmistakeable spirants. On the other hand, at any rate the first and second phenomena have their analogies in Sanskrit: $d\acute{a}$ - $dh\ddot{a}$ -mi for dha- $dh\ddot{a}$ -mi, $bh\ddot{o}t$ - $sj\ddot{a}mi$ by the side of $b\acute{o}dh$ - $\bar{a}mi$. If χ had the pronunciation kh, $\kappa\acute{\epsilon}$ - $\chi \nu$ - $\tau \alpha \iota$ is to the rt. $\chi \nu$ quite as $\kappa\acute{\epsilon}$ - $\kappa \tau \eta$ - $\mu \alpha \iota$ is to the rt. $\kappa \tau \alpha$.

(2) The extremely common interchange of the tenues and aspirates on less carefully written inscriptions of a more private character, especially on vases, e.g. Χάλχος, Χόλχις, "Εχθωρ Εὔταχτος, for which see O. Jahn 'Abhandl. der k. sächs. Ges. d. Wissensch. hist. phil. Cl.' Bd. iii. p. 739, K. Keil

of the same general conception.—Lepsius also shares my view. Cp. inter alia his essay on the Arabic sounds ('Verh. der Berl. Akad.' 1861), p. 105. Cp. Schleicher 'Comp².' 201, Leo Meyer 'Vergl. Gr.' i. 43, Brücke 'Grundzüge der Lautphysiologie²' p. 127. A differing view, now shared, I believe, by few, was developed by Arendt in Kuhn and Schleicher's 'Beiträge' ii. p. 283 ff. His objections have been well met by Wilh. von der Mühll 'Ueber die Aspiration der Tenues im Zend und Griechischen' Leipz. 1875 p. 15 ff.

'Philologus' xxiii. 259, and especially W. H. Roscher in his instructive dissertation 'De aspiratione vulgari apud Graecos' ('Stud.' i. 2, 63 ff., cp. Fleckeisen's 'Jahrb.' 1870 p. 449 ff). Also forms like δεδόκχθαι (Carl Curtius 'Inschriften von Samos' p. 27), ὅκχος, πίτθος, σκύπφος prove that the aspirates contained an explosive element. It is probable that in such cases the following breath adapted itself to the place of articulation of the explosive, and that therefore in these forms we have traces preserved to us of a sporadic transition of the aspirates into so-called 'affricates.'

- (3) The manner in which barbarians, where they are brought before us speaking Greek, imitate the aspirates. The Scythian in Aristophanes 'Thesmoph.' 1001 ff. in αἰτρίαν, πυλάξι, the 415 Triballian in 'Aves' 1679 in ὄρνιτο substitute the tenuis for the aspirate.
- (4) The manner in which the older popular Latin reproduces the Greek aspirates (Ritschl 'Monumenta epigraphica tria' p. 28). It is well known that here the aspirate is regularly represented by the corresponding tenuis. In the case of θ , to be sure, this does not say much, because the Romans had no dental spirant, which came near to the modern Greek θ . But still they had at their command s, which they used e.g. for the by no means identical Greek (sona = ζώνα), and which certainly comes nearer to the sound of the English th than the pure t does. And yet they wrote tesaurus, Corintus, tiasus. In the same way they were by no means without a sound for x, supposing this to have been already a spirant, which, though not adequate, still came very near to it. For it has been supposed with justice that in the breathing of the Latin h there was more friction against the palate, than in the Greek spiritus asper. But in no Greek word does h take the place of the Greek x: at this time it is regularly $c: calx = \chi \acute{a}\lambda \iota \xi$, Nicomacus, Aciles. The difference between the later pronunciation of ϕ and that of f consisted, as we saw, only in the fact that the former wasan aspirate produced entirely by the lips, while the latter was produced between the lower lip and the upper row of teeth. The two sounds were therefore, if not the same, yet at any rate, very similar. But in the earlier period the place of ϕ -

taken by f in Greek words, but far more commonly by p, which is much farther removed from a spirant: Poino-s = Φοινιέ, Pilemo = Φιλήμων, Nicepor (Νικηφόρος), Sisupus, purpura = πορφυρά, or by b: Burrus, Bruges = Πύρρος, Φρύγες. On the contrary all these phenomena, (cp. the Index grammaticus to Mommsen's 'Corpus Inscr. Lat.' vol. i. and Schmitz 'Beitr.' 125) are completely intelligible, as soon as we assume for that period sounds, the first element of which was k, t, and p. - Indeed even at the time of Ulphilas, the sound of the Gk. x at any rate does not seem to have been by any means that of the Germ. ch, for in Gothic it is very often represented by k: drakma, Malkus (Rumpelt i. 194), and in other cases, e.g. in the name Christus, it is preferred to express it by a special sign of its own; and yet the Gothic h in the groups, hr, hl, hn cannot in any case have been pronounced very differently from the assumed spirant, and therefore it would have been very natural to make use of this sign, if the sound of the χ had been that assumed by Arendt.

(5) The fact that χ in Semitic words very frequently represents the Hebrew Kaph, e. g. in Μάλχος, χιτών, while the Hebrew cheth, which in any case came very near to the 417 guttural spirant of the later time, is in earlier times not denoted by χ (A. Müller in Bezzenberger's 'Beitr.' i. 283).

(6) Though we must not lay much stress upon the evidence of ancient writers as to the pronunciation of their sounds in general, because of the indefiniteness and ambiguity of their descriptions, yet it is worth while noticing that Dionysius of Halicarnassus 'De comp. verb.' c. xiv. expressly speaks in the case of aspirates of the προσθήκη τοῦ πνεύματος.

(7) Modern Greek dialects ¹ have often in the place of an ¹ The little known fact, established by Deffner ('Monatsb. d. Berl. Ak. d. Wiss.' 1875 p. 23 ff.), is of importance for the history of the aspirates, that the Tzakonian dialect has formed from the double consonants $\kappa\kappa$, $\tau\tau$, $\pi\pi$ new and genuine aspirates, just as after the loss of the old diphthongs new ones have originated in modern Greek by epenthesis. In particular cases even, as Deffner p. 180 assumes, the Tzak. kh, ph is the successor of an old χ , ϕ ; khrīzu 'I wash '= $\chi \rho l\omega$, ophaka = $\delta \mu \phi a \xi$. — Deffner tells me that the modern Greeks pronounce every θ after σ , χ , ϕ , av, ϵv , like τ , and every χ in a like position like κ : e. g. $skizo = \sigma \chi i \zeta \omega$, $efki = \epsilon v \chi \dot{\eta}$.

aspirate the corresponding tenuis (Mullach 'Vulgarsprache' p. 28, 94, Morosi 'Studi sui dialetti Greci della terra d'Otranto' p. 105, Deffner 'Stud.' iv. 237): ἔκω, στοκάζομαι, τεκνίτης in the dialect of Rhodes, τέλω = θέλω among the Asiatic Greeks, λευτερόνω = ἐλευθερόω in the Peloponnese, tanató, termó in the Greek colonies of Italy (Ascoli 'Lautl.' 133). It is most common to find στ in the place of the old σθ (ἐγνωρίστην, γραφόμαστε). Hence as early as in my review of Mullach ('Ztschr.' vi. 236), I argued that this circumstance was only to be explained from a pronunciation of θ , in which a hard explosive element was heard; and I still doubt whether in these words a spirant was exceptionally changed into a hard explosive, although this change is regarded as proved for the Modern Norse t as compared with the ONorse th (pronounced as in English).

Further we must follow Rud. v. Raumer and Rumpelt in representing the transition from the aspirate to the spirant as not sudden but gradual. Between the two lay probably that class of sounds, for which Rumpelt ('Deutsche Grammatik' i. 45) uses the suitable expression 'affricated' (affricatee). The affricated sounds still retained a fixed explosive element, which might afterwards again attain to exclusive acceptance; while it is only under very peculiar circumstances that a tenuis could ever have come from a spirant. Ebel also in his essay 'On the History of Sounds' ('Ztschr.' xiii. 265) thinks that we may justly find in sounds of this kind an important means of explanation for many of the phenomena connected with the aspirates, and is strongly of my opinion, that in the Greek aspirates a k, t, p were actually heard before a breathing.

Only one argument has really been brought against the 418 pronunciation which I have demonstrated, i. e. the difficulty of pronouncing $\chi\theta$ and $\phi\theta$, supposing that here two actual aspirates were brought together. But the conclusion drawn from the difficulty of a combination of sounds,—estimated according to the usages of another language—is always most uncertain. For instance, if he were to measure by this standard, a German, not acquainted from personal familiarity with the Slavonic languages as they are spoken, would declare many a combination common enough in a Slave's mouth, e.g. Bohem.

prst, krk, utterly unpronounceable; and the same verdict would be passed upon a form like months by one ignorant of English. The characters and the sounds corresponding to them. do not completely cover each other in any language; there is always a something left, not to be characterized and not to be described, from which many surprising groups of sounds are to be explained. In Greek itself there is no want of such problems, as, for instance, in the pronunciation of oo and $\tau\tau$, which certainly was not identical with that of a double σ or τ . Perhaps we have still preserved in the old form άπθιτος (C. I. No. 1) an indication that the Greeks did not then pronounce with the breathing the first of two aspirates so connected. Von der Mühll has at p. 21 ff. of his essay, cited in the note to p. 114, acutely stated the difficulties which stand in the way of the theory of the assimilation of the explosives before θ . If θ had the phonetic value of a t with a succeeding h, we cannot understand why the ϕ of the rt. $\gamma\rho\alpha\phi$ changed to π before the t of $\gamma\rho\alpha\pi$ - $\tau\delta$ -s while it survived intact before the t+h of $\dot{\epsilon}$ - $\gamma\rho\dot{\alpha}\phi$ - $\theta\eta$ - ν ; and still less why the π of the rt. $\tau \nu \pi$ actually changed, before the same θ into the very aspirate which it was evidently found hard to pronounce before another explosive. We should expect e-grapthen like grap-to-s, e-typ-then like typ-to-s, and cannot understand how the aspiration which follows the t should have the power to produce aspiration before it. Mühll's notion, that the assimilation was here only one of written letters and not of spoken sounds, or that in other words kth, pth was spoken, but the $\chi\theta$, $\phi\theta$ was written on the analogy of $\kappa\tau$, $\gamma\delta$, $\pi\tau$, $\beta\delta$, seems to me deserving of much consideration. In an Attic private inscription of the Roman period (C. I. G. 916, 1. 4) we find in κατακθόνιος a counterpart to the abovequoted very old ἄπθιτος. The following grounds may further be alleged for this view. In the face of the disinclination shown by the Greeks to aspirates at the beginning of two consecutive syllables, it is very surprising that while the 419 simple aspirate in $\dot{\epsilon}$ - $\tau \alpha$ - $\phi \eta$ - ν requires the change of the preceding θ to τ , the double aspirate $\phi\theta$ in $\tau\epsilon$ - $\theta\acute{a}$ - $\phi\theta\alpha\iota$ leaves the θ intact. This phonetic requirement becomes completely intelligible, directly we assume that what was spoken was

e-ta-phēn, but not te-tha-phthai but te-tha-pthai. My belief is then that no argument is to be drawn from grouped aspirates either against the value above assigned for sounds of this character. It seems to me rather to be an established fact that these Greek sounds had not completed their gradual transition into spirants, at any rate in the first centuries after Christ. The beginning of this corruption seems to have been made by the Laconians, though even they did not from the beginning—as Ahrens 'Dor.' 70 shows—substitute σ for θ . This Laconism evidently presupposes the pronunciation of θ after the manner of the English th^1 .

Hence, if the Greek aspirates had, at any rate originally, the force of k, t, p, with an appended breathing, and if they originated from gh, dh, bh, it seems at the first sight, that there has really been, in this transition, rather a strengthening than a weakening. For the tenuis, inasmuch as a more energetic obstruction of the organs of voice concerned (Brücke 'Grundzüge der Physiologie d. Sprachlaute 2' p. 74 f.), or according to Sievers ('Lautphysiol.' p. 65), greater 'intensity2' is required to bring it out than for the medial, must have a stronger sound unconditionally ascribed to it, than to the medial. We should thus be obliged to consider that the tenuis with a breathing added, must be stronger than the medial with a breathing added, and therefore with regard to this widely prevalent law of the Greek sound, there would be an exception to the general tendency of the language. We might even be tempted by this surprising circumstance to look about for another explanation of the facts. What if the Greek hard aspirates were more primitive than the soft aspirates of Sanskrit? In this case everything would appar-

¹ The question here discussed is treated thoroughly by Brücke, 'Grundz. d. Lautphys.²' 127 f., with special reference to Rud. v. Raumer. Brücke is inclined to assume a force of θ as a spirant at an early date for $\chi\theta$, $\phi\theta$.

² This is why Sievers denotes the tenuis as fortis, the medial as lenis. I prefer, instead of this Latin expression, to employ the tolerably equivalent and very familiar hard and soft. The 'resonance' (tönen) of the chordae vocales is according to Sievers and other enquirers no essential criterion of the soft sounds.

ently be regular; we might regard the softening of kh, th, ph, into gh, dh, bh, which we should then have to assume for 420 Sanskrit, simply as weakening. Such a view would really be in itself by no means absurd, and hence I have already taken it into serious consideration in my essay on 'The Aspirates of the Indo-Germanic languages' ('Ztschr.' ii. p. 323 ff.). This is a question which cannot be answered, as has often been attempted, from the few isolated facts which have casually presented themselves, but only with reference to the sum-total of the consonants in all the languages of our stock. Now if we survey these, we arrive, as I have shown more fully there, at the following facts. In the place of the Greek aspirate there appears, as we saw, in Sanskrit a medial aspirate: in the Persian languages a medial, or a soft spirant which has originated in it (Zd. qh, zh, dh according to Justi's way of writing them): in the Slavo-Lithuanian, Teutonic, and Keltic languages, a simple medial: in the Italian languages either the spirant f, which can be shown to be of later origin, as the representative of bh and dh, and the simple breathing h, or, especially in the middle of Latin words, here too the medial. In illustration it is sufficient here to refer to Nos. 167, 169, 172, 307, 309, 325, 402, 411, 417. Who can fail to see that these facts may be explained better from the existence of an original soft than a hard aspirate? If the hard aspirate had been a common possession of our stock before the separation of languages, we should necessarily have expected to find this, or at any rate the k, t, p, which come nearest to it, surviving elsewhere than in Greek. Now there are, it is true, four words, limited to Latin alone, in which t may be regarded with some probability as representing a Greek θ : these are the words pation, lateo, puteo, and rutilus which are certainly related by kinship to παθείν, λαθείν, πύθειν, έρυθρός. But even with these, as I have shown op. cit. 335, other explanations are possible; as we saw on p. 67, the θ in $\pi \alpha \theta \epsilon \hat{\imath} \nu$ and $\pi \hat{\imath} \theta \epsilon \hat{\imath} \nu$ is secondary (cp. No. 383), and hence we may fairly assume that the shorter root was in Greek expanded by θ , in Latin by t. And as to έρυθρός, the immediate correlative of which occurs in Lat. ruber, Umbr. rufru (No. 306), the t of ru-tilu-s may properly

be regarded as a part of the suffix, like that of fu-tili-s or fut-tili-s (cp. p. 205 above). However, even supposing that in some words a Latin tenuis really corresponded to a Greek aspirated tenuis, it would be simpler to regard this as an isolated deviation, to be explained from a temporary preference for the hard explosive sound (which cannot be denied for 421 a certain period of the Italian languages, and especially for the Umbrian), than to build upon it conclusions as to the condition of sounds before the separation of languages. Indeed even an agreement of the two languages of Southern Europe on this point, if really established, though in any case it is limited to a few word-stems, would at most only make it probable, that before the separation of these two most closely related families from each other, a hard aspirate was in existence. For the much earlier period before the splitting up of the great stock into its main branches nothing would be thus proved. On these and similar grounds, I rejected, in the essay quoted, the assumption of original hard aspirates, i.e. of hard aspirates existing before the separation of languages, as the source of the corresponding soft sounds. Recently, however, this view has still been maintained by two distinguished scholars, by Sonne in his valuable essays ('Ztschr.' x.-xiv.) and by Kuhn. The latter puts together the reasons, which influence him to depart from the prevalent opinion, in 'Ztschr.' xi. 302 ff.; and although the greater part of what may be said in reply has already been brought forward by Grassmann 'Ztschr.' xii. p. 81 ff., I will not refrain from going briefly into Kuhn's reasons, especially as Grassmann does not expressly mention them. In a question of such importance it is worth while carefully examining the pro and the contra. The first argument, which Kuhn adduces on his side, runs thus: 'By assuming a transition from gh, dh, bh into kh, th, ph, we assume a strengthening of sound, whilst we see languages as a rule developing in the opposite course.' This argument loses all its force, so soon as we are able to show that another explanation of the transition in question is probable, as will be done presently. Besides we have already been obliged to admit (p. 410) that there are exceptions to this direction of phonetic change, on which, by the

way, I have myself laid especial stress. The problem is to

explain these, for they cannot be altogether denied away. -'Secondly, Greek shows only aspirate tenues, Gothic only th. hence no medial aspirates, while the consonantal system of Greek is in general nearer to that of the primitive language than that of Old Indian.' But the latter statement is true only with qualifications, and does not hold good e.g. at all of the spirants. As the Gothic th etymologically originated from t, this comes into the question still less. Further, even Greek, by the fact that in not a few cases, to be mentioned hereafter, unaspirated medials correspond to the aspirated medials of Sanskrit, points to an ante-Greek series of aspirated 422 medials. Grassmann justly lays great weight upon this. — 'Thirdly, Sanskrit shows both series' - aspirate tenues and medials - 'completely developed side by side.' And 'the aspirates gh, dh, bh, present in Sanskrit, do not, in the further developement of the language (in Prākrit and Pāli), appear in the form of kh, th, ph.' But from this nothing more follows than that the course, on which these secondary languages entered, was different from that which we see in a sister language on an entirely different soil. Elsewhere too Greek and Prākrit phonetic tendencies diverge completely. Besides, Grassmann (p. 102) points out at least two instances from Sanskrit, in which dh has been step by step displaced by th. There is also the same phenomenon in the language of the Gypsies, to which we shall recur. Hence this course of developement has not been altogether wanting in the Indian sphere. - Fourthly, 'we always see, where new aspirates are developed, that it is only the aspirate tenues which make their appearance.' This is true of Greek, in cases where χ , θ , ϕ come from κ , τ , π , and of Gothic. In Zend the gh and dh of later origin, in the place of g and d, and similarly in Middle and New Irish, where bh also arises out of b, they are not to be taken as actual aspirates, but as spirants. But even if no instance of newly formed soft aspirates could be proved, this would not disprove the existence of very ancient sounds of the kind. Hence the possibility that these sounds might have originated otherwise than by weakening from kh and th, is established. - Fifthly, 'several instances of kh, th, ph in

Sanskrit agree with Greek χ , θ , ϕ , and this partly in forms, e.g. in verbal terminations, which go back to the earliest formation of language. It would surely be very venturesome to assume here simply the play of chance.' But this is by no means necessary, as Grassmann has thoroughly proved. In certain words the Skt. aspirate tenuis has evidently originated from the medial. If nakhá-s 'nail' (No. 447) occurs by the side of Gk. dvvy, Lat. unqui-s, OHG. nag-al, Lith. naga-s, we may assume here the same transition of sound, which is established e.g. for rt. nath, the younger by-form of nadh, for atha by the side of the older adha¹. That which became the rule in Greek, shows itself in Sanskrit in isolated traces, a kind of agreement, which often occurs in the case of kindred languages. In certain other words we may assume an aspiration of the tenuis under like conditions, as is certainly the case with the rt. sta, which in Skt. regularly, in Greek 423 sporadically $(\sigma\theta \hat{\epsilon}\nu o_{S})$ aspirates the tenuis which is established by the majority of languages. Probably this holds good also of the ending of the 2 sing. -tha = $\sigma\theta\alpha$, where the v of the pronominal stem tva, dropped after the t, has certainly had its effect upon the aspiration. Finally, it might even be thought that the primitive Indo-Germanic language, by the side of the soft aspirates, possessed also original hard ones; a view which I mentioned on p. 82 as one for which Grassmann had given some reasons, but which was not yet established beyond question. If this view should be correct, a part of the Indian hard aspirates would correspond from the beginning to the Greek, but we could draw no conclusion from this as to the relation of the soft aspirates to the Greek. All attempts to derive the Indian gh, dh, bh from kh, th, ph are always opposed by the one main argument that in no single one of the kindred languages does a k, t, or p appear in the place of these sounds, but commonly enough a q, d, b. On the other hand, the number of stem-words, in which according to my view a Greek aspirate corresponds to a medial aspirate, reaches 111, while only isolated examples can be quoted for different

¹ Ascoli 'Studj Critici' ii. 165 = 'Ztschr.' xvii. 330 discusses these

phonetic relations in another sense.

relations. The facts being such, nothing remains for us but to recognize the hardening of gh, dh, bh to χ , θ , ϕ as a fact which we have not to explain away, but rather to elucidate in its apparent strangeness.

The explanation formerly seemed to me to have been discovered by Arendt, who in the 'Beiträge zur vgl. Sprachforschung' ii. p. 283 ff. submits the soft aspirates in connexion with the sounds akin to them to a very thorough discussion. Arendt recognizes (p. 306) in the soft aspirates soft or sonant explosive sounds, which are directly united with that hard surd which we denote by h. For this very reason these sounds were difficult to pronounce; the vocal aperture, when they were produced had first to narrow itself, and then to open out again, without any interruption. In course of time this was made easier in two ways, some of the languages entirely giving up the aspiration, and hence changing gh into g, dh into d, and bh into b, while the Greeks on the other hand altered the soft explosives 'into sounds for which the vocal aperture was in just the same condition as for the following h, i.e. into tenues.' Hence, according to Arendt, the change consisted in a kind of assimilation of the first element to the second, and we might fairly compare the alteration of nábhas into vépos, i. e. nephos with that by which rt. $\beta \lambda \alpha \beta$ changed its β into π in $\beta \lambda \alpha \pi - \tau \delta$ -s. Since 424 the appearance of Arendt's essay (1861) the sound of the soft aspirates, as it is now produced by natives of India, has been several times investigated thoroughly. I need here refer only to Brücke in the 'Sitzungsber. der phil. hist. Cl. d. Wiener Akad.' vol. xxxi. p. 219, and in the 'Grundz. d. Lautphysiologie2' p. 114 ff., and also to Sievers' 'Lautphysiologie' p. 93 ff. Both maintain that the process was not so simple as Arendt assumed, and that a medial could always unite itself without any pause to the sound of our ordinary h. But. however we consider the soft aspirates in question to have been pronounced, so much is clear, that they were sounds very difficult to make. And this is abundantly sufficient for our purpose, for the result is that the change into the corresponding hard aspirates was one which conduced decidedly to ease, and so our principle receives sufficient support. At the same time a new reason is supplied hereby against the view

contested above, that the reverse course took place. For the change of kh to gh would have by no means conduced to ease. Ascoli has ('Ztschr.' xvii. 242 ff.) found a remarkable parallel to this hardening of the aspirates, which at first sight seems so strange. The language of the Gypsies in the same way replaces all soft aspirates of Sanskrit by the corresponding hard aspirates: Skt. gharma-s 'glow,' Gyps. kham 'sun,' Skt. dhūma-s 'smoke,' Gyps. thuv, Skt. bhū-s 'earth,' Gyps. phuv.

This fact of the hardening of the aspirates gains a much wider basis, if we follow the same scholar in his view of the Italian aspirates and their history. In 'Ztschr.' xvii. 241 ff., 321 ff., xviii. 417 ff., in a series of essays which are now reprinted in his 'Studj Critici' ii. 108 ff., Ascoli has laid down the doctrine that the Italian representatives of the original soft aspirates, before they assumed the forms of which we have historical evidence, had passed through the stage of the hard aspirates. Ascoli's scheme is the following ('Studj Critici' ii. p. 200):—

Indo-Germ. aspirates	gh	dh	bh
Early Italian and Early			
Greek aspirates	X	θ	φ
Early Latin spirants	h-	þf	f
Latin representative	h- g- g-	-d- fb-	fb-

This view offers the advantage of bringing into a closer union Greek and Latin, and also Latin and the other Italian languages, and of establishing a clear connexion for surprisingly varied phonetic phenomena. It has besides strong support in the hard or surd character of the Italian f. What 425 previously prevented me from agreeing with this theory, which was advanced with great acuteness and complete mastery of the material, was in the first place a doubt as to the origination of a b from the spirant f, and, secondly, the necessity, according to Ascoli's explanation, of assuming for the Italian soft explosives g, d, b, where they have originated from gh, dh, bh, a completely different origin from that of the corresponding sounds of the Persian, Slavo-Lithuanian, Teutonic, and Keltic languages, hence e.g. for the Lat. g of lingo, com-

pared with the Goth. bi-laigon (No. 174), for the d of aedes. compared with the OIr. aed (No. 302), and for the b of nubes, compared with the ChSl. nebo (No. 402). But undeniably the course of the history of language was in many ways a more complicated one than scholars were inclined to assume twenty years ago. For instance, the change of an f into b between Goth, ufar and OHG. ubar (No. 392), ON. svefn 'somnus' and OHG. swebjan 'sopire' (No. 391) cannot be denied without violence. Perhaps it is to be explained by supposing that instead of the labio-dental narrowing, which f requires for its production, in the middle of a word there came to be an interlabial contact, which finally could not be distinguished from the sound of a b. There are also not wanting instances in which the same primary sound has changed into the same sound in quite different ways in different languages. Thus the dialectic $\kappa \in \beta \lambda \eta$, $\kappa \in \beta \acute{a} \lambda \eta$ (No. 54) agrees in its β with the b of the Goth, haubith; but the β has to be regarded in Greek as a sporadic weakening of ϕ , but in Gothic as a regular representation of the Indo-Germanic p; and so the Goth. hlif-tu-s (No. 58) corresponds to the modern Greek κλέφ-τη-ς (Old Greek $\kappa\lambda \hat{\epsilon}\pi - \tau \eta - s$). But the modern Greek ϕ (=f) is based upon a late change of the π before τ into the labio-dental spirant, the Gothic f upon the ancient rule of 'shifting.' For these reasons I feel no difficulty in now accepting unreservedly Ascoli's statement. The character b, I may notice for the benefit of readers who have not access to Ascoli's own explanations, denotes in his scheme the inter-dental hard spirant, expressed in English by th, while - before and after a letter, e.g. -b- denotes that it occurs in the middle of a word.

The Teutonic 'shifting of sounds,' which in earlier editions I have at this point endeavoured to trace back to principle, has now been made the subject of such various and detailed discussions and attempts at explanation, that I am not in a position to enter upon it. I can omit it the more readily, because Greek etymology is not at all touched by it. One of the most recent discussions, that of Kräuter 'Zur Lautverschiebung' (Strassburg and London 1877), agrees with me at least in 426 the assumption that the starting-point of the whole movement

is to be found in the transmutation of the soft aspirates. Striking analogies to this Teutonic 'shifting' have been adduced from Armenian by Hübschmann 'Ztschr.' xxiii. 18 ff. It is very noteworthy that in this language too the movement affects all three series of mutes, aspirates, medials, and tenues.

We may explain, with yet greater ease than the transformation of the aspirates, two other processes, which at first sight might seem to be also in opposition to the main direction, which we have asserted. To these belongs the change of an original j into f, the thorough discussion of which we have reserved for one of the subsequent chapters, because it could only be carried out in conjunction with a whole series of other phenomena of language. The transition from j to \(\cdot \text{will be} there seen to be by no means a strengthening, but a coarser pronunciation accompanied by a transformation of the spirant. Just as little can it be regarded as a strengthening, if the spirants j and v often appear in Greek under the form of the corresponding vowels and v. For in the first place, owing to the close kinship of j and i, of v and u, it is in many cases impossible to make out, whether the consonant or the vowel is the more primitive. The Vedic Sanskrit shows an extensive variation between these nearly related sounds, and makes it probable, especially in the numerous formative suffixes with a j, which have Greek and Latin suffixes with an i corresponding to them (10-s, 1a, 10v, Lat. iu-s, ia, ior), that before the separation of the languages the vowel was predominant here. Secondly, the soft vowels ι and ν require hardly more force of articulation than the corresponding spirants, which of all sounds suffer the greatest displacements and losses, so that here too we by no means perceive any strengthening of the sounds. In fact, even if it should appear that other vowels also, most commonly ϵ and o, take the place of these spirants, this will not seem to us an exception to the general direction.

After this glance back at regular phonetic change and the general direction which we may detect in it, we proceed to the task of surveying, in the first place generally, the character of the irregular or sporadic movement of sour

which is to be distinguished from it. At the time when I first sent this book out into the world, all such questions had as yet been to a very slight extent collectively discussed. In face of a method of procedure, which not unfrequently was very unsafe, it seemed to me that something was gained if, excluding 427 altogether what it was quite impossible to demonstrate, I simply distinguished the rule, established by numerous instances, from the exception, the phonetic law from the phonetic tendency, and marked off more definitely all that belonged to this region in the case of Greek. And this endeavour did not fail to win for me encouraging approval. Recently, in the case of some younger scholars the tendency has established itself, not indeed to deny absolutely the second kind of phonetic movement, the irregular or sporadic-this would be impossible even for the most zealous friend of rule-but yet to place a kind of ban upon it, and to look upon it as a matter of course with mistrust.

The watchword of this tendency is 'phonetic laws work blindly,' or, as Osthoff, 'Das Verbum in der Nominalcomposition' p. 326, puts it, 'with the blind necessity of nature.' We cannot omit to subject this assertion to examination. In the first enthusiasm at the firmer steps which the students of our science learnt to take, they did not always, I think, deal very cautiously with the word 'nature.' Too much was said about natural laws in language; and some even desired to include the whole of the science of language among the natural sciences. Schleicher especially went far in this direction; he as it were personified language as a living being, and thought he could lay down for it, as for the growth of plants or animals, laws universally valid. Although I never shared this view in all its ramifications, I am quite ready to admit that I have myself not always made a right use of the word 'nature.' But what sort of natural laws are those which required for the Ionic dialect the change from $\bar{\alpha}$ into η , and for the Doric the retention of the a, or which bade the Greek hold fast to the old aspirates up to the first Christian centuries, and then give them up? I acknowledge that in respect of these views I have received much instruction and stimulus from the work of Whitney, which is full of sound and sober thinking. He urges

us throughout not to forget that the creators and employers of language are men, and that we have to guard carefully against hypostases, which sometimes pass quite into the region of myth. If we represent language, the linguistic sense, the linguistic instinct, or phonetic laws as personal activities, we must never forget that it is a figure of speech, of much the same kind as when we say: 'justice requires,' or 'a feeling of decency forbids this.' Language belongs to the soul of men, alike in its phonetic as in its more intellectual side1. The laws of language are of a similar kind to the laws and behests of custom 428 and right, only that we can never trace back the origin of the laws of language to individual lawgivers. Even the most firmly established linguistic usages rest in a very small degree upon the physical incapacity of a nation to produce at a certain period certain sounds or combinations of sound. A Greek could at all times, as is shown by ησαν, θράσος, very well pronounce a o between two vowels. But the custom had established itself with him, to allow a soft σ in this position to drop. The Athenian avoided to a great extent the combination $\rho\eta$, but that his organs of speech could produce this very well is shown by words like $\chi \rho \hat{\eta} \sigma \theta \alpha \iota$, $\kappa \acute{\rho} \rho \eta$. An old Italian fwas represented in the middle of a word by b, but the Romans had no difficulty in pronouncing rūfus. By looking at them in this way the demonstrable laws of language lose nothing of their steadfastness. There are indeed also inviolable customs, habits of life, and legal ordinances in a nation, exceptions to which are hardly to be found, and the life of the soul is no more excerpt from laws than the physical life. But by the side of these there are customs which are observed with less regularity; and in just the same way there are in every language phonetic changes, which have not become laws, and yet are not a matter of absolute caprice. It is true that language is as a rule more uniformly and firmly ordered than custom and right, because mere fancy and the pleasure of the individual has no play in it. Hence nothing is to be rejected more decidedly than the too hasty and unwarranted admission of

¹ I am very glad to find myself agreeing here with much that Brugman says in the 'Morphologische Untersuchungen' by himsel and Osthoff, i. p. 12.

exceptions. Up to a certain point, then, all forces in language work blindly, for a full consciousness of the processes is doubtless extremely rarely present. Even analogy, which is allowed to compete with blind natural necessity, is based upon the operation of conceptions dimly hovering before the mind. Language requires to be measured with her own measure. For the history of language, as for all history, there is no other course than that of feeling one's way cautiously from surely established facts, and so tracing out those which are less plain, and in seeking support for the correctness of the results arrived at in the manner in which they fit into each other.

But enough of these general considerations. The whole of the third book has to do with the demonstration of particular sporadic transitions of sound. But now that mistrust has once been aroused, I consider it not superfluous to collect here 429 beforehand a number of especially clear cases, which come less under consideration further on, and are not wholly derived from Greek, and then to take up the question where we have to seek the explanation of this whole phenomenon.

Transitions of sound $(\pi \acute{a}\theta \eta)$, brought about naturally, not by caprice, are divided by the old etymologists into three classes: έλλειψις, πλεονασμός, τροπή. If we adopt here this division, in the first place loss, especially at the beginning of a word, is one of the most undeniable processes. The loss of an initial σ was assumed by us in the case of κείω (45 b), κείρω (53), κληΐς (59), κοτ (64), κίδναται beside σκίδναται (294), κόπτω (686), κρίνω (76) before κ, in the case of τέγος (155), ταῦρος (232), ταφ(233), $\tau \dot{\nu} \pi \tau \omega$ (249), $\tau \dot{\nu} \rho \beta \eta$ (250) before τ , in the case of $\pi \epsilon \nu$ (354) before π , and that of a γ before λ in λ is (544) 'smooth.' Is this loss the effect of a phonetic law? No one can maintain this, for $\sigma \kappa$, $\sigma \tau$, $\sigma \pi$, $\gamma \lambda$ are favourite initial combinations in Greek. The Attic writers use στέγος (cp. στέγη) as well as τέγος, which is in use from the time of Homer, and better suits Lat. tego, tectum, Goth. thak. From Homer onwards σμικρός and μικρός are found side by side. Sanskrit supplies us with tārā (205) 'star,' beside the Ved. str-bhis, paç-jā-mi (111)

¹ [Professor Curtius has returned to this subject in his essay, 'Zur Kritik der neuesten Sprachforschung' (Leipzig 1885)].

'I see,' besides spac-a-s 'spy,' and Latin cu-ti-s (113) beside scu-tu-m. Gothic has preserved in stiur the s, which is still heard in the German Stier, and English steer, while $\tau \alpha \hat{v} \rho o$ -s (232), tauru-s, ChSl. turŭ, ON. thór-r have lost the sibilant. In Irish sc, sr, sn, sm have been retained when initial remarkably often, but on the other hand, what is in other languages a mere tendency to drop an initial s before t, has become an established law: cp. Nos. 155, 177, 216, 219, 233. How else are we to describe this but as sporadic loss of sound? In the Skt. numeral $dv\bar{a}u$ (277) and in other words denoting duality dv is retained, but in vicati (No. 16) it has become a simple v, and the evidence of the cognate languages shows that this bifurcation is very ancient, and that therefore in very early times without any discoverable reason two numerals of the same origin were treated differently as to the initial letter. No one probably will deny that the Skt. dat. gen. te belongs to the stem tva 'thou,' and yet the loss of v after t is quite isolated. In the case of the combination σF , of which we no longer find any written evidence for Greek, the language evidently adopted a 'bifurcating' course, when it was initial. Either the σ disappeared, as in $F\alpha\delta\epsilon\hat{\imath}\nu$ (252), $F\dot{\epsilon}$ (601), $F\dot{\epsilon}\theta$ os (305), $F\iota\delta\dot{\imath}\omega$ (283), or on the contrary, the F assimilated itself to the preceding σ , which then as a sharp sibilant did not pass into an aspirate, as in σίδηρος (293), σάλπιγ ξ (388 b), σάλος (556), σιγ η (572), σιωπ η (572 b), σομφός (575). The clearest evidence of this process is furnished by the Homeric κονίσσαλο-ς (with the variant κονί- 430 $\sigma \alpha \lambda o$ -s), which evidently originated in $\kappa o \nu \iota - \sigma f \alpha \lambda o$ -s, and with loos (569) = vishva gives the best proof that the combination σF can through $\sigma \sigma$ become a simple σ . — The Keltic languages hold a very different position with regard to sv when initial. In the British branch chw has come from it, a development like the Zd. q: Cymr. chwaer 'sister,' plur. chwioryd, Zd. acc. sing. qanharem. In Irish either the s (as s) or the v (as f) has been retained, and indeed both sounds alternating in one and the same word: siur and fiur 'sister,' sollus and follus 'clear' (No. 663), Cymr. chwech 'six,' Ir. sé 'six,' sesser 'six men,' but mor-fesser 'great six men,' i.e. 'seven men' (No. 584). — The rule that τ before ι became σ with the Ionic Greeks (Dor. $\phi \bar{a}$ - τi , Ion. $\phi \eta - \sigma i$) is never observed in the dat. sing. of the τ -stems:

κέρατ-ι, παντ-ί, nor in ἔτι, ἀντί. — The apocope of vowels is certainly no phonetic law of Greek, as is shown by ἐστί, ἀπό beside Lat. est, ab, and yet it is found in numerous prepositions from Homer onwards, in the most different dialects. From λέγουσι we never get *λέγους, but undoubtedly from λόγοισι the Attic and Doric λόγοις. Or is this also to be denied? Perhaps too it will be denied—as some are very fond of borrowing examples from living languages—that in heutzutage the e of heute, and in the dative dem Mann the e of Manne has been lost. What is to be done with Lat. dic, duc, fac beside jace, pete [and the Plautine dice, duce etc.]? In the case of these, I suppose, the assumption holds good that forms in frequent use are occasionally liable to especial mutilations.

Growth $(\pi\lambda\epsilon o\nu\alpha\sigma\mu\delta s)$ is recognized by the more recent science of language mainly in the form of a development of vowels, and of some few consonants, out of neighbouring consonants. We shall enter upon this in the closing chapters. Since the publication of the second part of Joh. Schmidt's 'Vocalismus,' the developement of vowels from nasals, liquids, and spirants has been treated with especial interest. But in this there has been discovered nothing in the way of natural necessity. Before Favowel was developed in ἐϵίκοσι (16), ἐϵρση (Cret. ἄϵρσα 497), while forms like *ξοινος, * ξείκω, which are just as conceiveable, do not occur; and an α has sprung up before λ in άλείφω, before μ in ἀμέλγω, of which λείπω and μένω know nothing. In ἄφ-ενος an internal vowel has been developed, but not in άφνειδ-ς. Conversely the Lat. femina has retained the vowel of the suffix, which in Vertumnus, columna has disappeared. βέλεμνον, τέρεμνος, Μέθυμνα, στάμνος have lost the vowel between the two nasals, which was retained in the great majority of participles. It was only very gradually that in Latin the usage became established in the case of poclum or poculum, 431 dextera or dextra. There is a clear case of growth at the end in the so-called ephelkystic v, the fluctuating appearance of which is at the same time an especially plain example of the fact that there were other forces at work in the life of language besides phonetic laws and the tendency to imitation.

The wide sphere of $\tau \rho o \pi \dot{\eta}$ or phonetic change in its narrower sense embraces on the one hand combined sounds, and on the

other simple sounds. Examples of both classes may be adduced here. ks is differently treated. Sometimes it remains unchanged, e.g. άξων beside Skt. áksha-s, Lat. axis (582), sometimes by assimilation of the s to the k it becomes kt: τέκτων (235) beside tákshan, άρκτος (8) beside fksha-s. — The combination po is treated in three ways. It remains unchanged in θάρσος, έρση; it is assimilated to ρρ in όρρος, πυρ- $\rho \delta s$; it becomes a simple ρ , with compensatory lengthening in aorists like ἔκειρα, in οὐρά (505), and without it in ὄρος beside Hom. ούρεα (504). — From the same combination λj comes λλ in άλλος and numerous other cases, λ with compensatory lengthening in καλός (later καλός), while the substantive τὸ κάλλος and the comparative καλλίων show the regular doubled consonant.—From έγέννατο, preserved among the Aeolians of Lesbos, came the Attic eye varo, but yevvar and yevvalos always preserved the double vv. In distinction from this there came in Attic from the primary form EevFo-s (Inscript. single v Eévos, without the compensatory lengthening which may be seen in the Ionic $\xi \in \widehat{\iota} vos$. — As the whole of the investigation which follows is occupied with the demonstration of sporadic transitions, it will be sufficient here to bring into prominence phenomena belonging to this sphere, like aspiration and softening. No natural necessity produced the x in the Hom. δρωρέχαται, in λύχνος beside λίκνον, πυκνός, any more than the ϕ in the Herodotean $\pi \epsilon \pi o \mu \phi a$ beside $\pi o \mu \pi \dot{\eta}$, the b in Skt. pi-bā-mi and the Lat. bi-bo (371), or the γ in μίσγω beside misceo (474) or in δλίγος beside rt. lik (553). Any one who denies sporadic changes of sound would have to separate $\sigma \hat{v}s$ from ῡs (both Homeric), and Skt. cvácura-s from ἐκυρό-s (20), and he would find his position difficult with regard to the interchange between ρ and λ, e. g. αἰρέω, Cret. αἰλέω, ordinary Greek agrist είλον. The demonstration, excellently supported by Osthoff in the first volume of his 'Forschungen,' following several previous scholars, that the Indo-Germanic suffix -tra appears in Latin not merely as -tro (ara-tru-m) but also as -cro, -clo 1, -culo (lava-crum, Osc. sakara-klu-m, Lat. ora-cu- 432

¹ Sayce 'Principles of Comparative Philology' p. 49 compares the usual [?] English pronunciation of at least as ac least.

lu-m) would be necessarily looked upon now by its author himself 'with mistrust.' The epenthesis of an ι is in Greek a phenomenon in many cases as unmistakeable as it is incalculable in its appearance, which e.g. in the preposition $\dot{\epsilon}\nu\dot{\iota}$ in Homer sometimes makes itself apparent, sometimes not, while it shows itself in $\kappa\epsilon\iota\nu\dot{\rho}$ s for $\kappa\epsilon\nu\dot{\rho}$ os, without however excluding $\kappa\epsilon\nu\epsilon\dot{\phi}$ s.

Naturally these examples might be easily multiplied, and the following pages supply abundant materials. The only other cases I will refer to are σκέπ-το-μαι beside spec-io and Skt. (s)paç (111), and Lith. kep-ú beside ChSl. pek-a (630). For myself I am content to point out what a hard task would await any one who to maintain this 'blind necessity' would do away with sporadic phonetic change. And so long as this has not been done, I see no advantage in passing a vote of 'no confidence' upon this process. It seems to me better worth while to trace out the inducements which render intelligible to us such a fluctuation as we recognize, even within the limits of one and the same idiom and the same period of language,and must recognize if we are not to close our eyes to evident facts, without on that account falling into arbitrariness or uncontrolled license. In such an inquiry after the reasons we shall often not reach the goal, as is frequently the case in the entangled paths of the life of language, but some points, I think, may still be made probable. I may mention especially the following.

In the first place, we must keep well in view the fact that a language or a dialect is at no time a complete and entire unity, formed at a stroke, but rather an entity which is throughout historical, created by degrees, and consisting of strata piled one upon another. Even in the idiom of a section of the history of language, marked off sharply in time, there are always to be found, beside the uppermost stratum of the phonetic forms which have become dominant, older intrusions, which, from some reason which we cannot always discover, crop up in the more recent periods. Sometimes a single word may have got loose in early times from the family of kindred words, and after the sense of connexion had been lost, preserved faithfully the older sound, which was altered in the

majority. It seems to me probable that the κ of ά-τρακ-το-ς beside the π of $\tau \rho \in \pi \omega$ (p. 468 No. 633) is to be so explained. This retention of the old beside the new is perhaps less extensive in languages without literature and without popular 433 poetry, but it is especially extensive in a nation which like the Greek in the earliest time gave birth to a universally celebrated Epos, familiar to all, and which up to the establishment of Atticism created a poetry richly developed also in other directions. Half obsolete words from earlier times crop up in Attic Greek, e.g. έπος, which was retained only in the phrase $\dot{\omega}_s \in \pi o s \in i\pi \in i\nu$, \ddot{o}_s and $\ddot{\omega}_s$ preserved their anaphoric force only in a few applications. But not merely do whole words take such a position, but also forms of words of a more ancient stamp are found scattered among the mass of new formations. Even the modern High German has individual words, which by their phonetic form point to a much earlier time: e.g. Bräuti-gam, Nachti-gal, where, as Jacob Grimm says, 'the old full sound of the vowels has been preserved,' or be-quem, now the sole relic of the OHG. queman, which elsewhere has become kommen. The few Homeric words, which in the nominal suffix τι has not changed τ into σ: βωτιάνειρα, φάτις, μητις, $\chi \hat{\eta} \tau is$ (cp. $\chi \alpha \tau i(\omega)$), are doubtless to be explained in the same way. They are all words of an antique type, of which φάτις as a poetic word remained unchanged even in the Attic writers. μάντις takes up a special position on the score of its ν. Here perhaps the hieratic usage had a conservative effect.

There are noteworthy differences in the treatment of the group $\sigma\mu$ in Greek. In the prehistoric time the Greeks were disinclined to this group, so that $\sigma\mu$ was changed into $\mu\mu$, and frequently was preserved only as μ , sometimes with, but also sometimes without compensatory lengthening: Skt. asmát, Aeol. $\check{a}\mu\mu\epsilon_{5}$, Dor. $\check{a}\mu\dot{\epsilon}_{5}$, Skt. $\acute{a}smi$, Aeol. $\check{\epsilon}\mu\mu_{l}$, Dor. $\dot{\eta}\mu\dot{l}$, Ion. $\epsilon\dot{l}\mu\dot{l}$, $\check{\eta}\mu\alpha_{l}$ for $\dot{\eta}\sigma$ - $\mu\alpha_{l}$ (568), Hom. $\pi\dot{\nu}\mu\alpha\tau_{0}$ for $\pi\nu\sigma$ - $\mu\alpha\tau_{0}$ (p. 716). On the other hand an σ which has arisen out of other dentals is a favourite sound before μ , from Homer downwards: $\dot{\nu}\sigma$ - $\mu\dot{\nu}\nu$ - ι (608), $\kappa\dot{o}\sigma$ - $\mu\sigma$ -s (25), $\pi\epsilon\dot{l}\sigma$ - $\mu\alpha$ (326), later $\dot{l}\sigma$ - $\mu\epsilon\nu$, $\dot{o}\sigma$ - $\mu\dot{\eta}$, $\lambda\sigma\gamma_{l}\sigma$ - $\mu\dot{o}$ -s. But there is no complete consistency here, for the σ is retained, although original, in the At impared with Ion. $\epsilon\dot{l}\mu\dot{\epsilon}\nu$, Dor. $\dot{\eta}\mu\dot{\epsilon}\nu$. Perhaps in

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έστί, έστέ have had their influence, especially as σμ was a very

common combination in the Attic time. But the contrast in the Homeric language too between είμί, είμέν on the one hand, and ἔμμεναι, ἔμεναι on the other is still surprising. We see here clearly how the products of different stages of the language lie side by side. — It is an archaism, as Fick ii3. 236 also assumes, that σ is retained in θρασύ-ς, θράσος beside θάρσος, and in πράσον beside Lat. porrum, which is explained from the fact that *θαρσύ-s, θάρσος (θαρσύνω) were the older forms. When metathesis came in, the sibilant was too firmly attached to be set aside. Still the Argive proper name 434 Θράϋλλος shows that in particular dialects the ruling tendency to the aspiration of the σ prevailed. We may explain in a similar way the retention of the initial σ in συριγέ, which goes back to an earlier *σfαριγέ or *σfεριγέ. The σ once occurring in combination was retained after the $f\alpha$ or $f\epsilon$ had been reduced to v, precisely as in the Homeric ἥΰσε ἀῦτή the integrity of the initial, not contracted vowel is based upon the earlier occurrence of the fuller rt. $\alpha F \epsilon$. A very clear instance of the effect produced at a much later period by an older sound long extinct is found in the three Attic words in -ρη: δέρη, κόρη, κόρρη ('Stud.' i. 1, 248): in the case of each of the three an older form with a consonant after the p is established (cp. on No. 53). The retention of doubled consonants in some more isolated words like yevvav, yevvaios, έννέα, όρρος I regard in the same way. The whole so-called conjugation in - µ is fundamentally an archaism of the kind, which, in spite of the powerful attractive force of the prevalent method of formation, has been preserved among the Greeks to a proportionately wide extent. Why may we not regard that as possible in the sphere of phonetics, which is universally recognized in respect of formation and vocabulary?

Another source of violations of the phonetic rule lies in the influence of dialects one upon another. Violations of this kind are universally recognized, and will not be wholly denied even by the most zealous defenders of regularity in this sphere. Indeed, scholars were formerly very much inclined to put difficult words, to a certain degree, out of all control by denoting them as 'dialectic'; a procedure which is

objectionable in method, where we have no demonstrable indications of a definite dialect. The extraordinary abundance of synonymous forms in Homer is certainly to be explained to some extent from the intermixture of Aeolisms, though mainly from the retention of the old beside the new. For Herodotus' αμπωτις 'ebb' with its surprising τ we might, if only on thestrength of the ω (cp. Aeol. $\pi \dot{\omega} \nu \omega = \pi i \nu \omega$), conjecture that it was borrowed from some un-Ionic dialect. The π of the Attic $\pi \epsilon \mu \pi - \tau o - s$, $\pi \epsilon \mu \pi - \alpha s$, $\pi \epsilon \mu \pi \alpha \delta \omega$ agrees much better with the Aeolic $\pi \epsilon \mu \pi \epsilon$ than with the Attic $\pi \epsilon \nu \tau \epsilon$: and $\pi o \iota \nu \dot{\eta}$, if it belongs to the Cypr. πείσει, agrees better with this than with the common Greek τίω (cp. p. 472). Ιστορεῖν, ἰστορία are Ionic words, with a rough breathing, surprising in face of $l\sigma\mu\epsilon\nu$, olda, etc. These words borrowed by the tragedians from the pre-Attic literature were never really popularly current in Attic prose. The un-Attic 'Αθάνα, which appears in the tragedians, and not only in melic passages, is certainly a Dorism or an Aeolism. For πρύτανις, which belongs to πρό, we might 435 conjecture Aeolic origin. In the case of ἀνώνυμος, συνώνυμος, etc., (cp. πανήγυρις beside άγορά) this assumption is improbable, because here the v both in the stem-word and in composition, extends much further. Certainly the effects of these local transferences are not on the whole very common in Greek. But we must keep cases of the kind before our eyes, that we may judge from them what is linguistically possible. Many considerations of a different kind, which belong here, have been adduced by me in my essay 'On the range of phonetic laws, especially in Greek and Latin' ('Berichte der k. sächs, Ges. d. Wissensch.' July 1870). I may refer especially to the difference in the position of the phonetic change. I am by no means inclined in this respect to demand an abstract equality before the law, and to maintain of the majesty of phonetic laws that it is blind like justice. The phonetic changes which here come under consideration are almost all based upon convenience. What is more justified psychologically than that mortal men when speaking, paid homage to the vis inertiae in the main syllables of words, that is, in the stem-syllables with important limitations, and also frequently in the final syllables, only

not to imperil too greatly the intelligibility of the word or the sentence; while they did so to a somewhat greater extent in

final syllables, and in particles not unsuitably called 'empty' Such considerations explain to us the following facts. The i of the dat. plur. of the a and o declensions was dropped by the Athenian, for ywoais, Noyois are quite intelligible, but not the i of the 3 plur. in -ovoi. -aoi. The surprising change in Latin from tr into cl has been established very sparingly in stem-syllables, but all the more abundantly in syllables forming stems, which do not contribute much that is of importance (Osthoff 'Forsch.' i.). The Boeotians never changed the ξ of the nom. sing. into ς , but they did change that of the preposition $\dot{\epsilon}\xi$, which took the form of és, and in the adverb $\pi \epsilon \rho i \xi$, which appeared as $\pi \epsilon \rho i s$. With the Romans we find by the side of ex the forms ec and e, but where do we find beside rex a *rec or *re? The poets frequently used πολλάκι besides πολλάκις. It appears to me by no means incredible that in this isolated case the s, which at that time had no significance, disappeared. I cannot believe in a safe conduct granted by the laws of nature, which made every final sigma absolutely inviolable; and still less that, as has been conjectured, on the analogy of little words like it. άμφίς, which had nothing in common with πολλάκις except 436 the quite abstract category of the indeclinabilia, one not to be grasped by the popular instinct of language, the s was added at a later time. A quite isolated loss of sound is shown by the Homeric αρ and the Old Elean τά τ' άλ (C. I. G. No. 11). These are the only Greek words which lost a final α , and in the case of apa the initial a may admittedly be dropped at pleasure, so that $\alpha \rho \alpha$, $\alpha \rho$, and $\rho \dot{\alpha}$ stand side by side. From ϵi άν came at an early time έάν, which long maintained itself, although $\eta \nu$ and $\delta \nu$ were used beside it, the former even in Homer. Even Herodian collected μονήρεις λέξεις, words which in some respect stand alone. It will not be possible to get rid of this conception out of the science of language.

Finally, we must not lose sight of the fact that the written sound never quite coincides with the spoken. Hence if the sound expressed by the same sign, e.g. the j in one case becomes a vowel, e.g. i, in the other a consonant, e.g. z or Gk. ζ ,

this may be very well explained, as has been already conjectured in other quarters, from a minute difference of the two mother-sounds at an earlier time, for which indeed all tradition is lacking in the particular case, and which it seems to me exaggeration to regard as exempt from change. But what was otherwise the use of the physiology of phonetics, with its teaching that every single sound in language denoted by a sign is properly only the representative of a whole series of sounds, which under the more delicate investigation of living languages admit of being very well distinguished, but which are closely akin? For instance, to understand the irregularities of the dental sibilant in Greek, we must not neglect the difference between the sharp and the soft s. We shall come back to this point when dealing with the spirants and their Greek transformations.

Reference must be made also to accent as a source of peculiarities, especially in vocalism. Indeed recently its importance has been successfully established for the consonants also in the Teutonic languages. Perhaps this is a side of the question which will be most readily recognized by the opponents of isolated transitions of sound. This possibility also must be kept before our eyes. But certainly hardly anything has as yet been surely established to clear up the questions with which we are here concerned. The student of language has to deal at every step with unknown quantities. It is a mistake, in every case to admit as a fact, nothing but what has been explained completely and with full certainty. Much is meanwhile often gained by simply putting side by side a set of facts. Often new sources of knowledge or continued special inquiries 437 furnish new explanation, where previously only uncertain conjectures as to the reasons of the phenomenon were possible.

Even for irregular or for sporadic substitution of sounds, we must take as our guiding line the fact that we are to expect only a transition of the stronger sound into the weaker, not vice versa. We have seen already (p. 23) how much has been gained for the control and regulation of etymology by this one principle, the recognition of which we owe entirely to comparative philology. The etymologies of the ancients ultimately went so far as to regard as possible t'

change of any letter into almost any other; and the comical attempt of L. Ross, to make the 'Italicans' once more into sons of the 'Graeci' [cp. Hadley's 'Essays' pp. 141-167] amounted to the assertion of the principle that 'no sound was secure against changing into another.' All such assumptions are based upon the tacit presumption that change of sound is occasioned by accidental instances of inaccuracy and vagueness on the part of speakers. What is accidental can only be guessed at; and hence the older etymology had really a character of pure divination, and in the delight it took in its professed art of solving riddles, it was not rarely the first to set them itself. In place of these endless metamorphoses, which, viewed as a whole, leave on us the impression of magicians' or conjurors' tricks, we endeavour to establish a definite tendency. If we succeed in this, an important limit is put to arbitrary etymologising, inasmuch as certain assumptions, in the sphere of phonetics at any rate, are excluded as impossible. We readily acknowledge that this goal is not yet reached. And it cannot be denied that the thorough special investigations of the last ten years have led us to see that the courses taken by phonetic changes are more involved than we thought them. We had something to say upon this on p. 410 (note), but saw at the same time that, in spite of all, we are well justified in holding firmly to the principle, the endeavour after greater ease in sounds, as the guiding one. Only now the conception of weakening or ease will seem to us less simple than formerly. The physiology of phonetics has more and more shown us how manifold are the sounds which the alphabet denotes as unities, and to what modifications their production is subject. I have always laid stress upon the fact that we are still only at the beginning. Even in the present position of the inquiry fortunately a complete agreement has been established as to the inherent improbability of 438 many phonetic changes which have been asserted. For example, if it has recently been maintained, that in certain derivative endings the guttural tenuis κ has originated from the dental medial δ , or if on the other hand this same κ has been derived from σ or F, such suppositions now hardly find a supporter.

According to these explanations, we shall have to endeavour to examine the relation of the various sounds to each other, arranging them according to the force required for their articulation, in order to be able to estimate what sporadic changes of sound are probable, what are improbable. It is understood, of course, that by changes we mean only such as take place without any influence from juxtaposition, which is evident and universally recognized: that e.g. the change from γ into κ before τ: ἀκ-τό-ς, or before σ: ἄξω, i.e. ἀκ-σω, is here left quite out of the question. For in such changes, which fall under the head of assimilation, the transition of the weaker sound into the stronger is unmistakeable. In the same way, the foreign or loan-words of each language are entirely excluded from our consideration at present. We may see most clearly from the numerous Greek loan-words in Latin, how much wider are the laws which govern the phonetic relations of such words. Loan-words are, of course, exposed to manifold transformations, for they are carried like merchandise from one nation to another. In such cases we have only to deal with attempts to accommodate the form of foreign sounds, which often cannot be exactly reproduced, to the sounds of the borrowers' own language. Hence, for example, the various ways of reproducing the Greek & among the Romans, which appears sometimes as p (purpura), sometimes as b (Bruges), sometimes as f (forbea $=\phi o \rho \beta \dot{\eta}$ Fest. s. v. cp. p. 300). We have further the adaptation to the native vocabulary, for which Förstemann ('Ztschr.' i. ad init.) has introduced the excellent name 'popular etymology' (Volksetymologie) [Cp. Max Müller 'Lectures' ii. 367-8, 529-533]. We cannot doubt that Lat. cādūceus, as was conjectured long ago (Vossius 'Etym.' s. v.) is really only a Latinisation of Dor. καρύκιον (Att. κηρύκειον), and probably, in spite of the length of the \bar{a} , we may recognize an assimilation to cado, caducus. But it would be very incorrect to regard the transition from r to d as admissible generally, i.e. even in native and inherited words. In Greek the number of words, that may be shown to have been borrowed, cannot be great. But even in the case of these many phonetic transitions occur, which we could not allow for the inherited

stores of the language. Benfey ii. 88 compares the Gk. πάνθηρ with the Skt. pundárīka-s: this is perhaps the single 439 instance in which Gk. θ corresponds to a d of the Indians, and the assimilation to the Gk. θήρ is unmistakeable. Bopp ('Gloss.'), Benfey ii. 65 and, following them, Christ ('Lautlehre' p. 14) compare βάσανο-s with the Skt. pāshāná-s 'stone,' 'touchstone:' this word too may be regarded with Benfey as only a borrowed word, but I do not attempt to decide whether the Greeks borrowed the name for the lapis Lydius from the Indians, or whether both these nations received it from a third: for in Sanskrit too the word is quite isolated. Benfey compares Hebr. bâshan 'land of basalt'.' Hence it would be a serious error to quote this comparison in order to prove β equivalent to Skt. p.

If, after thus defining the limits of our sphere, we review the individual sounds according to their proportionate strength, the vowels offer the least difficulty. For it is universally recognized that a, the strongest of the vowels, requires the greatest force of articulation, and that u and i stand by its side as weaker sounds (cp. Bopp 'Vergl. Gr.' i2. 13, etc.). We must therefore absolutely reject the transition of u or i into a, -and indeed hardly any one could have supposed this to take place, at any rate in Greek; - but conversely we must hold the change of a into the weaker u or i as in itself probable; and hence in Latin and Teutonic too we find innumerable instances of a u or an i by the side of an original a. In the case of Latin indeed this transition does not seem to be direct, but to have come in through the intermediate stages of o and e, so that e.g. we may assume with certainty between Skt. dana-m and Lat. donu-m the form dono-m, and with great probability between the negative particle which in Skt., Gk., and Osc. takes the form an, and Lat. in the intermediate form en. For the Italian languages we may refer on this point to the thorough investigation of Corssen in the second

A. Müller in Bezzenb. 'Beitr.' i. 287 denies the Semitic origin of the word, without mentioning the Skt. word, and proposes an etymology of βάσανος based upon the Lithuanian bandýti 'test,' and a suffix (also Lithuanian) -sena: this is certainly very bold, and in any case is quite irreconcileable with the Skt. pāshānā-s.

edition of his work on the 'Pronunciation, etc. of Latin' vol. ii. It is true that of the Teutonic languages it is precisely the oldest form, the Gothic, which shows the most commonly i and u in the place of an a, e.g. in is-t=Skt. ás-ti, Gk. ἐσ-τί, Lat. es-t, and in the negative un-, where the vowels have remained to the present day, in German as in English. Hitherto no intermediate stages have here been demonstrated; on the contrary, the ë of the Old High German, which corresponds to the Greek and Latin e, is derived from i, and the corresponding o from u, by 'breaking' [i.e. by 440 the influence of a contiguous consonant]. But from my investigation of the 'splitting of the A-sound' ('Sitzungsberichte der k. s. Ges. d. Wissensch.' 1864 p. 9 ff.), the results of which have been mentioned above, pp. 52 and 92, it seems to me probable that the Old High German has rather preserved in these cases the older sound, so that this branch of the Teutonic family, though only known to us at a later date, still gives us here, as in other cases, the representation of an older condition of the language, than the Gothic1. I will not here enter into the analogous phenomena in Slavonic and Lithuanian. But even in Sanskrit it is by no means uncommon to find the softer vowels in the place of an older a, and that even in stems, which have elsewhere, and partially in kindred formations of Sanskrit itself, retained their a; especially in the st. pi-tar nom. pi-ta (No. 348) = $\pi \alpha - \tau \epsilon \rho$ nom. πα-τήρ, Lat. pa-ter, Goth, fa-dar; hir-ana-m 'gold' (No. 202) by the side of Zd. zar-anya; $sthi-ti-s = Gk. \sigma \tau \acute{a}-\sigma \iota - s$ for sta-ti-s (No. 216); niç-ā 'night' by the side of nák-ta-m, Goth. naht-s, Lith. nak-tì-s (No. 94); purás = Gk. πάρος (No. 347); rt. cudh 'purify' = Gk. καθ in καθ-αρό-ς (No. 26), while the Slaves replace the a of this root by i: ChSl. čis-tŭ 'clean.' Sanskrit grammar explains these weakenings in part by the influence of the accent; but we cannot account for all cases without assuming extensive shiftings of the

¹ Cp. Scherer 'Z. Gesch. d. d. Sprache 'pp. 7, 186 etc., where it is stated that Müllenhoff had previously expressed this view in his lectures. — These relations are thoroughly discussed in the same sense by Fick 'Die ehemalige Spracheinheit der Indogermanen Europas' p. 176 ff.

accent. We see in Skt. to a yet more extensive degree a long \bar{a} degraded under similar conditions into a long \bar{i} , a phenomenon, which is very surprising, and which certainly deserved a thorough discussion. Greek is entirely free from this serious mutilation of the original form. In our tables on p. 128 [vol. i. 158] a and v could not be placed among the regular representatives in Greek even of an original &. After the original a had at a far earlier period split into a, e, o, the majority of the Greek dialects remained at this stage, while the Aeolic dialect, and, evidently at a much later period, the Italic languages, went one step further, frequently weakening e and o into i and u. In this respect, therefore, the vowel-system of Greek is, on the whole, older than that of Latin, though this has on the other hand preserved much in its consonant-system more faithfully from the primitive 441 time than Greek has. The splitting of the a into the triple chord cannot occupy us further here, when we are proceeding to the irregular substitution of sounds. It can only be understood from the particular conditions of the individual words, and hence it falls within the sphere of specifically Greek phonetics, which is foreign to these investigations. We here regard etymology as the science of the discovery of the origin of words. The etymologist may expect for every Greek α , ϵ , o an original α , for $\bar{\alpha}$, η , ω an $\bar{\alpha}$. That is sufficient for our present position. But certainly recent investigation has

When we pass on to the consonants, we have first to take into consideration the relation of the two main classes of consonants to one another. How are the explosive or momentary consonants related to the fricative or continuous sounds? At first sight it might seem as though the latter class were the stronger, inasmuch as we hear a stronger

taught us to pay more attention also to the differences of the a within the European languages. Various aspects of the

question have already been discussed on p. 51 ff. 1.

¹ Besides the recent attempts to establish greater antiquity of the European variety of vocalism compared with the monotony of the Asiatic languages, mentioned on p. 93, we must notice now the acute 'Essai d'une distinction des différents a Indo-Européens' of F. de Saussure in the 'Mém, d. l. Soc. de Linguistique' iii. p. 359 ff.

sound, when an r is vigorously rolled, or an s is thoroughly hissed on the teeth, than in the case of t or d. But it is not the strength of the sound which reaches the ear, with which an investigation is concerned, but the force of articulation. The explosive sounds, called in the older terminology mutes, are produced, physiologists tell us, by causing an obstruction at a certain place in the mouth, and then letting the breath pour out at one moment (Brücke 'Grundzüge der Phys. u. Syst. der Sprachlaute² p. 41); while the fricative or continuous sounds on the other hand are produced, when at a certain place in the organs of speech there is merely a 'narrowing' caused, in consequence of which the breath, as it streams out, presses through or rubs, and thus produces a sound. Hence we cannot doubt which class of consonants requires the more energy: of course it is the former, inasmuch as obstruction is an action of greater force than narrowing. We shall therefore be inclined, in cases where two sounds appear to correspond etymologically, to ascribe the priority to the explosive over the continuous sound, and to explain the transition of the former into the latter as a gradual enfeebling of articulation. It is in agreement with this view that the changes of t into s - Indo-G. and Lat. tu, Dor. τύ, common 442 Greek $\sigma \dot{v}$, of d into l—Gk. $\delta \acute{\alpha} \kappa \rho v$, OLat. dacruma (No. 10), later lacruma, of d into r — Lat. ar-vorsum for ad-vorsum, of b into v — Ital. avere = Lat. habere, of c = k into a sibilant centum = kentum, Fr. cent, of g into j(y) — Geist in Berlin pronounced Jeist (Yeist) - always in this direction, not in the reverse order, are universally recognized, and may be established by countless examples from periods of languages, which may be known historically with completeness. But to these also belong a number of other changes, which are in part yet stronger, and which have to be explained by means of intermediate steps. For instance, there is the regular transition from k to c in Sanskrit and Persian, discussed on pp. 27 ff. and 86 ff. If the Slavonic languages go one step further, replacing the primitive k by the dental s, this change too finds its place here: hence e.g. that of the Indo-G. dakan, Skt. daçan into ChSl. desett (No. 12), towards which we have perhaps the intermediate stage retained in the Lith.

dészimtis, for the sz here sounds like the German sch [Eng. sh, and is therefore related to the original k just as the initial sound of the Fr. cheval is to that of the Lat. caballus. The replacement of the Old Greek aspirates kh, th, ph by the Modern Greek spirants χ , θ (= Eng. th), ϕ (= f), and the change from the soft aspirates gh and bh, which can still be proved to have existed in the earliest Italian period, into the Italian spirants h and f belonged to the same category (p. 422). Similarly by intermediate stages in the Romance languages v developes out of p (intermediate stage b) — Fr. savoir = sapere — in the Slavo-Lithuanian, z and z out of q—ChSl. zna-ti, Lith. žin-aú, Indo-G. rt. gna 'recognize' (No. 135) the lispingly pronounced & in Modern Greek, e.g. $\delta \dot{\epsilon} \nu = o \dot{\nu} \delta \dot{\epsilon} \nu$ — and d in Danish, e.g. in the name Madvig — from the full medial. But if we are thus justified in expecting as a rule the transition from explosive to fricative sounds, and not the reverse, we may at the same time point out here, that there are important exceptions. One of the most widely-extended and important is the change of an original v into g, which we find in Greek dialects, and still more plainly in the Romance languages (Ital. golpe = vulpes). But we shall soon explain more in detail how this phonetic change is not immediate, but is brought about by a prefixed parasitic g, and thus through the intermedial step gv. If any one chose to compare the Homeric particle of comparison $\phi \dot{\eta}$ immediately with the stem of the reflexive pronoun F_{ϵ} , he might easily be brought to assume a direct transition from F into ϕ , as Pott does, who compares $\phi \hat{\eta}$ with the Skt. $v\bar{a}$, 'or' (ii¹. 318). But the reflexive stem f_{ϵ} had 443 originally the form $\sigma f \epsilon$. The hard sibilant probably did not agree well with the soft labial spirant. Either it hardened the F by assimilating influence into the aspirate ϕ^1 ; thus arose the stem $\sigma\phi\epsilon$ in $\sigma\phi\epsilon\hat{\imath}s$, $\sigma\phi\epsilon\hat{\tau}\epsilon\rho\sigma s$, or it gave way before the F, which, later on, being left defenceless, was weakened into the mere breathing: F_{ϵ} , $\dot{\epsilon}$. But as an initial σ , when followed by other consonants, sometimes, as was shown on p. 429, falls away, especially in the Laconian dialect: φαιρίδδειν $=\sigma\phi\alpha\iota\rho(\xi\epsilon\iota\nu)$, and in the dat. plur. of this very stem $\phi\ell=\sigma\phi\ell$

¹ We noticed at No. 605 Fick's disagreement with this view.

(Ahrens 'Dor.' 109), $\sigma\phi\epsilon$ might thus also become $\phi\epsilon$, and the Homeric $\phi \dot{\eta}$ might come from $\sigma \phi \dot{\eta}$, identical with the Goth. sve 'as' (cp. No. 601). Here then the origination of the more forcible sound from the weaker is explained by the influence of juxtaposition, just as in Persian the combination cv becomes cp: Zd. $cp\hat{a} = Skt$. $cv\bar{a}$ (St. cvan for kvan No. 84). And the case is the same with the change of a F into β before ρ , which is common in the Aeolic of Lesbos: βρή-τωρ for Γρή-τωρ (No. 493). Here the dissimilating influence of the following liquid brings about the strengthening of the soft spirant. For the aversion of the Romans to the combination vu produced from the stem ferv ferb-ui, and perhaps it was the similar influence of a Gk. o which produced from the Graeco-Italic stem vol (Lat. vol-o) the Greek βολ (βούλομαι). All this has only been mentioned here in order to set aside hasty objections, and to prepare the way for further investigations. For it is just as important, in the sphere of sporadic changes, with which we are now dealing, to establish their main direction, as it is on the other hand to leave open the possibility of exceptions; although before admitting these we must require for them the evidence of special occasions and indubitable analogies. The task of the student of language in such questions is like that of the geographer. It is not enough to have discovered the general direction of a current in the sea; it is necessary to follow this out in its deviations, its shiftings, back-eddies and the like which are produced by special causes. But such deviations do not contradict, they rather confirm, the existence of this main direction. Other cases of the change of a continuous sound into an explosive we admitted on p. 425. In Latin, as in German, an f within a word has become a b. We endeavoured to explain this by supposing that b was in this case originally only the incompletely articulated beginning of an f. In the same way we ought to regard the Teutonic d as compared with the b (Engl. th) of earlier stages in the languages. In Greek we may find $\tau\tau$ taking the place of $\sigma\sigma$, and 444 even τ replacing a single σ , though both not without the conjecture that these t-sounds were by no means identical

in pronunciation with the ordinary ones in Greek. But the analogies of living languages are not wanting for these surprising assumptions. We must, however, in investigations of this kind avoid also the opposite error, that of admitting too readily changes which follow the general direction. Languages are inclined indeed to weakenings, but they can also avoid them: with all their changeableness, there is a great persistency shown in the history of languages. Hence nothing would be more perverse than to suppose that changes corresponding to the fundamental direction are to a certain extent to be expected everywhere, or that there is an unsteady fluctuation of such a nature that occasionally the stronger sound may, in some ramification or other of a root, change into the weaker. In this respect every language is to be regarded as an unbroken whole throughout, and even changes which are in themselves not improbable can only be proved to be facts by the evidence of undoubted instances.

After this digression we return to the several consonants. We had determined the natural relation of the explosive to the fricative sounds to be this, that the former are inclined to pass into the latter, but not the latter into the former. But how is it with the several subdivisions within these two classes? As to the explosives, it may be considered on the whole as an admitted fact that the tenuis is stronger than the medial. I may on this point refer to p. 420. The change of the tenuis into the medial, which we should for this reason expect, is thus also one of the most incontestable phenomena of language. The extent to which it is to be admitted in Greek will become apparent hereafter: but we may here point out some certain instances of it, as for example the derivation of ἀρήγω from rt. ἀρκ, ἀλκ (No. 7), that of τήγ-ανο-ν from the stem of $\tau \dot{\eta} \kappa \omega$ (No. 231), that of the rt. $\mu_{i\gamma}$, $\mu_{i\sigma\gamma}\dot{\omega}$ by the side of Skt. mic, Lat. misceo (No. 474). The same change is familiar in Latin words like $v\bar{\imath}$ -gint $\bar{\imath}$ by the side of the Boeot. Fί-κατι (No. 16), neg-lego for nec-lego, publ-icu-s compared with Old Lat. popl-icu-s, quadra-ginta by the side of quattuor, and in numerous Romance forms, like It. lagrima = lacrima, Fr. abeille=apicula, It. lido=litus. We must not, however, overlook the fact that in all the cases quoted and in

many others the softening takes place in the middle of the word, and is undoubtedly closely connected with the influences which the hard explosive sound experiences from the surrounding vowels, nasals, and liquids. (Cp. Corssen 'Beitr.' 53, 83, 445 i². 77, 126, 207.) The medial, inasmuch as, according to the statements of physiologists, it contains or can contain 'voice,' is from this very reason nearer to these sounds than the tenuis.

The relation of the Greek aspirate to the corresponding tenuis is at first sight less clear. We might be inclined to assume a χ , equivalent, as we saw, to k+h, to be stronger than k, and of course similarly for θ as compared with τ , and for ϕ as compared with π . But Sanskrit alone is sufficient to warn us to be cautious. Here, as has been already mentioned, the hard aspirate arises often in a time which can be historically demonstrated, from an earlier tenuis, e.g. that of pra-tha-má-s 'the first,' where the suffix is the same as that of the Latin in-tu-mu-s, op-tu-mu-s, and the -ta-ma-s preserved even in Sanskrit in many superlatives. In the same way we find in Greek κεφ-αλή by Skt. kap-ála-s and Lat. cap-ut (No. 54). We have already (p. 431) discussed the aspiration of a tenuis as a phonetic affection, and inasmuch as the strength of articulation betrays itself especially in the exclusion of all accompanying sound, the true view of this process will be to regard the addition of a thick breathing after the tenuis as a more incomplete, less pure and therefore weaker articulation. The tenuis cannot have been universally preserved quite in its original form, any more than the a; just as the a by fluctuations of the organs of articulation in the direction of the u and i passes into o and e, so we find this breathing sometimes as an attendant on the tenuis.

But there are changes not only in respect of quality and degree, but also in respect of the so-called organ, or, more correctly speaking, the place of articulation. Now is it possible to prove an order of succession also for the organs, as compared with each other, or does the relation of the gutturals to the labials and the dentals defy any such estimation according to the strength of articulation? It was certainly not by accident that the Indian grammarians placed the consonants in the order in which Sanskrit grammar still arranges them.

They put the gutturals first, and after them the remaining explosive and nasal sounds, in the order in which they are produced in the mouth, proceeding from the back forwards; i.e. gutturals, palatals, linguals, dentals, labials. And this order reappears in the class of the semi-vowels j, r, l, v, and in the sibilants c, sh, s, until finally the list is closed by h, which belongs to no part of the mouth in particular. This order of the organs corresponds to the historical succession, in which the sounds 446 proceed from one another, at any rate in so far that we see the first class of the consonants, the gutturals, passing into the following classes, but not vice versa. Of course we do not assert that at a certain stage in the history of language there were only gutturals, and then by the side of them dentals, it may be, and so on. The question of priority, so stated, is absurd: nothing induces us to assume that at any time any one of the three main parts of the mouth, at which the gutturals, dentals, and labials are produced, was ever entirely unused. It is surprising that even a sober and cautious scholar like Heyse, in his 'System der Sprachwissenschaft' (p. 117 ff.) takes the trouble to draw up from this point of view a 'list of the order of the origination' of the consonants according to their organs. But we may certainly venture to assert that the gutturals, which are the hardest for children to pronounce, require the greatest force of articulation1, and therefore, as laxity and ease of articulation increase in the course of the history of language, pass readily into the sounds belonging to other organs, but rarely if ever arise out of them; so that thus the direction of the change of organ is on the whole from the back forwards. The greater ease with which

¹ The fact, which Max Müller 'Lectures' ii. 164 quotes, that some Polynesian languages are entirely without gutturals, while the dentals are found everywhere, is quite in harmony with this view. — The disinclination of the Keltic languages to the p is remarkable. Cp. Nos. 214, 366, 367 b, 371, 390, 392, 393, etc. No word has yet been adduced in which the two main divisions of this family retained in common the Indo-Germanic p. On the other hand a p appears often in the British branch in the place of an Indo-G. k (qu), as is shown under No. 624 ff. Cp. now Windisch 'Beitr.' viii. 1 ff., Rhys 'Rev. Celt.' ii. 321 ff., Stokes ibid. 408 ff.

dentals are pronounced as compared with the sounds of the other organs may be recognized sufficiently from the fact that they occur by far the most commonly in the formal elements of language, in the terminations of inflexion and word-formation, as also from the fact that almost the only groups of explosives which are found, are those in which the second consonant is a dental: kt, qd, pt, bd, etc., and the order is never reversed. We should also notice here the fact, to which Potti2. 211 calls attention, that it is almost only dentals and labials which are found in the prepositions of the Indo-Germanic languages. Of course, when Pott adds the remark, that these seem to be the 'most primitive' sounds, we cannot follow him in this, nor think of such a thing for a moment. Are we really required to regard the pronominal and the numerous verbal roots of our linguistic stem, which contain a guttural, as less 'primitive?' Where is there the shadow of a proof of this? I rather take the circumstance adduced to mean that the dentals and the 447 labials were of less significance than the gutturals, and were therefore better adapted for that whole class of words of lighter stamp, so to speak: while the gutturals, which could only be brought out by a more forcible movement of the heavier back part of the tongue, which furnished more resistance, found their chief employment in the most significant part of the vocabulary. This fact is again the main reason why the dentals and labials are so much more numerous than the gutturals, as Förstemann 'Ztschr.' i. 169, ii. 37 shows with regard to Sanskrit, Greek, Latin, and Gothic. But the gutturals were in many ways driven out of the sphere which was originally their own, and replaced by their front-rank men. To take a few examples out of many. In Sanskrit many gutturals pass into palatals, with regard to which we may refer to p. 26; in Greek we find, in the same place, as we shall see more fully below, not unfrequently instead of these, labials: Skt. interrogative stem ka, Lat. quo, Gk. no (only in New Ion. κο), rt. ga 'go,' Gk. βa; more rarely dentals: Skt. kim, Lat. quid, Gk. τi . The original dh is not uncommonly replaced by f in the Italian languages, and also by b in the middle of Latin words: Skt. mádhjā (fem.), Osc. mefiu (No. 469), Skt. rudhirá-s, Gk. έρυθρό-s, Lat. ruber, Umbr. rufru (No. 306), a partial shifting VOL. II.

from the dental to the labial organ, and thus again in the forwards direction. Cp. Corssen i2. 148 ff. The changes of the Lat. c and q before e and i in the Romance languages are produced in such a way that the guttural first becomes palatal, and then from this point gets shifted further forwards (Lepsius 'Das allgemeine linguistische Alphabet' p. 39). Precisely the same course is found in the case of the similar changes in the Lettic, Slavonic, Teutonic and numerous other languages, as is shown most fully by Schleicher 'Zur vergleichenden Sprachengeschichte.' It is true that in this sphere of what Schleicher calls Zetacism, to which we shall have hereafter to return, movements in another direction are not wholly wanting. There is especially a shifting, from the influence of contiguous sounds, both of a dental and occasionally of a labial into a palatal sibilant. Indeed in some dialects under particular conditions there is actually a change from p into k, as in the dialect of Naples under the influence of an l which has been softened to an i, e.g. chiano=planus (Wentrup 'Beiträge zur Kenntniss der neapolit. Mundart' Wittenb. 1855 p. 11, cp.

448 Diez i. 270)¹. But cases of this kind belong, like zetacism generally, to the sphere of assimilation in the wider sense, and prove absolutely nothing against the main direction which we have asserted. The transference of a consonant from one point of articulation to another will, as a rule, have its main reason in such special influences of assimilation or dissimilation. Where there is such an essential change of the original sound we cannot possibly content ourselves with the assumption of degeneration or 'weathering away,' and hence we shall have to look about afterwards for adequate explanations of Greek linguistic processes of this kind. Here all that was necessary was to clear the way for our subsequent investigations by pointing out the prevalent direction of phonetic change ².

¹ The change from pt to kt is found in Irish: secht (No. 337)=Skt. saptán, and also in borrowed words: corcur=purpura, clum=pluma ('Beitr.' viii. 116).

² With regard to the relation of the dental consonants to the labials, it is hard to prove any definite relation of priority between these classes. Ludw. Lange 'Ztschr. f. d. österr. Gymn.' 1863 p. 299

If we now proceed from the explosives to the fricatives, we shall find it easiest to recognize a well-established rule for the relation of the nasals to each other. The guttural nasal is a rare sound in all Indo-Germanic languages. It only occurs before other gutturals, and therefore it depends upon these, and can change into the nasal of another organ only when the explosive which follows it also changes its organ. Thus the n in the Lat. vincere, i. e. vinkere, is clearly guttural: in the Ital. vincere it is palatal, in the Provençal vensser (Diez 'Gr.' i. 235) it is dental. But the other nasals enjoy greater freedom. It is certainly generally the rule that, where m and n correspond, m is the older sound: and this is especially the case at the end of a word, where Greek v corresponds so often to the primitive m: δόμο-ν=Skt. damá-m, Lat. domu-m. For the origin of this phonetic rule I may now be permitted to refer to what I have said in my paper 'Zu den Auslautsgesetzen des Griechischen' in the 'Stud.' x. 203 ff. We find the same phenomenon occasionally in German, e.g. Faden for the older fadam (Grimm 'Wörterb.' s. v.), regularly in Old Prussian (Bopp 'Die Sprache der alten Preussen' p. 11), and in Old Irish (e. g. ech n-aile = equum alium), and in two languages, which are still more closely related to Greek, the Albanian and the Messapian (G. Stier 'Hieronymi de Rada carmina italo-albanica Brunsv. 1856 p. 56, Bopp 'Ub. das Albanesische' p. 4, 'Bulletino dell' Inst. arch.' 1859 p. 215). In the Romance languages this change is not confined to the end of a word: Fr. rien=rem, 449 It. con=cum; it appears sometimes also in other places: Fr. natte=mappa, Wall. furnice=formica (Diez i. 199 [Brachet 'Etymological Dictionary' s. v. changer). The reverse transition also occurs in these languages, though more rarely: Span. mueso for nuestro (i. 203): and we can hardly deny its existence altogether in the earlier stage of language; so that a greater mobility must be generally ascribed to these more volatile sounds.

With regard to the two liquids r and l thus much is certain, adduces several reasons in favour of the greater difficulty of the labials, which are well worth considering. But on the other hand the change of the dental aspirate at least into the labial is, as we shall see below, a fact which cannot be denied away.

that greater force is required for that vibration of the tongue, by which the 'trill' r is produced, than for that loose position of the same organ, in which l arises. Hence the priority of r over l is in numberless cases a recognized fact. Sanskrit very often preserves the more forcible sound in words, where the European languages prefer the softer l (Lottner 'Ztschr.' vii. 16 [Fick 'Indo-germanen Europas' pp. 201-261]), as e.g. in rt. ruk = Gk. $\lambda \nu \kappa$, Lat. luc (No. 88), rt. $bhr\bar{a}j = Gk$. $\phi \lambda \epsilon \gamma$, Lat. flag, fulg (No. 161). For the same reason r is a much more common sound in Sanskrit than l, and is proportionally more frequent than it is in the two classical languages (Förstemann 'Ztschr.' ii. 39). The relation is less firmly established in modern languages. A Romance l often appears in the place of a Latin r, e.g. It. pellegrino=peregrinus, Tivoli = Tibur; but it is hardly less common to find r in the place of l: It. rossignuolo = lusciniolus, Fr. apôtre = apostolus (Diez i. 189, 207). For a later stage in language, therefore, r and l are almost equivalent, and the choice between the two often depends upon the influences of contiguous sounds: while, for an earlier stage, it is certain that r is the older sound. We are not, however, justified, as was noticed on p. 83, and as will be seen still more clearly from the more careful examination of the Greek sounds, in denying wholly to the period before the separation of languages the sound l.

It is more difficult to say what is the genetic relation of the spirants one to another. May we assume a transition of the sounds j, s, v, h into each other; and if so, how? It is certain that of these sounds the weakest is h, in those languages in which this character denotes the mere breathing, becoming fricative at no part of the mouth, and being thus the minimum of sound which falls within the sphere of language. Hence of the Indo-Germanic j, s, v there is often nothing left in Greek but the spiritus asper (Nos. 606-603, 598-605, 565, 566). The sibilation of a j plays an important part in the phenomena of 450 zetacism. But it is only the soft sibilant, denoted in French as in the Slavonic languages by z, which we can expect to find in the place of j: this letter hardly ever passes directly into the sharp, hard s. It would be still more unlikely that j

should pass into v^1 ; and we should have to regard the appearance of a Greek F in places, where we may presume an older j ($T \lambda \alpha \sigma i \bar{\alpha} F o$, $F \delta \tau \iota$ on inscriptions, cp. p. 396), as such a transition. But as adequate analogies can hardly be found for this 2 , it will be safer to assume instead of a phonetic confusion, one which is merely graphic, i. e. an unsatisfactory and clumsy way of writing the j, which was still retained dialectically, but which could not be expressed by any character in use. It is not necessary to remind the reader how entirely improbable a priori is the change of an s or a spiritus asper into F. From the earliest period of the Hellenic language, of which we have any knowledge, the digamma is found to be disappearing. How can we conceive of it taking the place of sounds so common as s and the spiritus asper?

But finally, the various classes of the fricatives have their points of mutual contact. Thus there is an interchange between the liquid l, and that one of the nasals which is the most nearly related to it, i.e. n, in which it is not very easy to determine from a general standpoint the question of priority. With respect to Greek in no inconsiderable number of words in the Doric dialect (Ahrens 'Dor.' 110) λ before τ or θ (Lacon. σ) passes into ν ; $\phi(\nu-\tau \alpha \tau \sigma) = \phi(\lambda \tau \alpha \tau \sigma)$, $\dot{\epsilon} \nu \theta \dot{\epsilon} \dot{\nu} =$ $\dot{\epsilon}\lambda\theta\epsilon\hat{\nu}$, a phenomenon which we may safely regard as a rare kind of assimilation, for these dental explosives come nearer to the dental nasal than to l, the sound of which is produced at the edges of the tongue. Bugge 'Ztschr.' xx. 43 attempts to prove the reverse transition to a wider extent. But I know no certain example of it from Greek, except the form λίτρο-ν for νίτρο-ν, recommended by the Atticists (cp. Lobeck 'Phryn.' p. 305) and prevalent in Herodotus [cp. Bähr 2 on ii. 86]. But this is certainly borrowed and corresponds to the Hebr. neter (Benf. ii. 57). The doubt of A. Müller in

¹ The reverse change from v into j occurs in Wallachian: jinu=vinum (Diez i. 350).

² I cannot be satisfied even by what Usener collects, 'Fleckeisen's Jahrb.' 1865 p. 233 note. For after all it is merely a conjecture that δβά 'tribus' (cp. p. 207) is from *vas-jā. How easy it is to suppose that some other root or some other suffix (*vas-vā?) occurs here!

Bezzenberger's 'Beitr.' i. 294 refers, as it seems, only to the original Semitic character of the word. Cp. also Vaniček's 'Fremdwörter' p. 36. There is also λίκνον 'a winnowing 451 fan,' which is discussed more fully by Bugge 'Stud.' iv. 335. The Lithuanian nëkôti 'to toss corn in a winnow,' makes it probable that the forms occurring in Hesveh. νίκλον τὸ λίκνον, νεῖκλον τὸ λίκνον, νίκειν λικμάν, νεκητήρ (Μ. Schmidt νεικλητήρ) λικμητήρ, Μεγαρείς, give the original initial letter of the root, which was possibly dissimilated to A in λίκνον, λικμό-s 'winnow,' under the influence of the following nasal. Cp. Fick i3. 651. The isolated glosses of Hesych. Έλιπεύς · δ' Ενιπεύς ποταμός, φίλαξ· δρῦς νέος 'Ηλείοι beside φίνακα · δρῦν, to which H. W. Roscher has called my attention, are not clear enough to enable us to decide which sound in the dialectical variation is the older. The conjecture of Fick i3. 825 that the Thessalian ἀστραλό-ς (No. 521) quite corresponds to the equivalent Lat. sturnu-s has no great probability. considering how favourite a suffix - lo is. The form allo-s, which generally used to be compared with Skt. anjá-s, and which has an l in three other groups of speech, was taken by us otherwise (No. 524: cp. Schleicher 'Comp. 4' 218 note 2). Other words quoted by Christ p. 98 (cp. Leo Meyer 'Vgl. Gr.' i, 65) are partly very doubtful, partly, e.g. μέλλειν No. 466, explained by us otherwise, and, as I believe, more probably. πλεύμων by the side of πνεύμων holds an exceptional position, because we have to do with the letters $\pi\nu$, which do not occur elsewhere. We discussed it under No. 370. Leo Meyer in Bezzenberger's 'Beitr.' ii. 106, in spite of this, chooses to regard the transition from n into l as an admitted fact, and bases upon this his conjecture that Lat. elementum, which we explained otherwise under No. 523 b, corresponds to the Skt. an-i-mán 'thinness' (of the air), 'small part' (cp. anú-s 'fine,' 'small'). In the Romance languages there is abundant evidence for the change in both directions. The change from n to l seems somewhat the more common, but it is connected with the tendency to dissimilation: Ital. Bologna =Bononia, veleno=venenum; but the reverse is also fully established, Provenç. namela 'blade'=lamella (Diez i. 203, 190). In these languages the sounds r, l, n are generally the most mutable of all, so that even r occasionally takes the place of n (Span. hombre=hominem, Fr. timbre=tympanum), though the converse is rare (Diez i. 203, 208). On the whole, we might be inclined to ascribe to the nasal a stronger articulation than to the liquid, inasmuch as it is more closely connected than the latter with a definite place in the organ of speech. However, the interchange between a nasal and a liquid does not come into consideration for the questions which we have here to discuss. It is true that, after Ebel 'Ztschr.' iv. 338, for the first time, so far as I know, and not without doubt, had suggested the possibility of the transition from n to r, Benfey 'Ztschr.' vii. 120, and especially 'Orient und Occident' i. 287, treated the sounds n and r as if they 452 were as good as identical, and employed this assumption to derive numerous suffixes with r from suffixes with n. But this only shows very plainly how rotten is the phonetic foundation which supports the theory of 'theme-formation,' and of suffix-mutilation, rejected by us on p. 74. For we do not need such a transition for these suffixes, if we recognize an original variety; and in stem-syllables there is not a single instance in which the change of n into r may be proved¹.

1 Nothing has been brought forward recently to make probable this phonetic change, often as it has been defended. Leo Meyer 'Vgl. Gr.' ii, 126 quotes the Romance transition from n into r, referred to above. But according to Diez this is common only in the case of certain groups of consonants, which like on (Fr. diacre=diaconus), dn (Londres, ordre) would be otherwise hard to pronounce, and we can see how much we have to do here with carelessly articulated sounds, from the fact that the converse change also occurs (Wallach. suspina = suspirare). Schweizer 'Ztschr.' xii. 301 appeals to the Swiss niemer=niemand and the South German mer=man. But the same explanation applies to this final r, which has but a weak sound here, and this would at any rate prove nothing for a letter in the middle of a word. Sonne, an opponent of the participial theory, assumes for the forms of the 3 plur. act. Zend in -are, a derivation from ars=ans, ant ('Ztschr.' xii. 288). If this view were correct (cp. Spiegel 'Beitr.' ii. 23, Kuhn iv. 211), though this seems to me very doubtful, after the remarks of Schleicher ('Comp." 'p. 666), this would only be an example of a single group of letters, and further one derived from an entirely different region of language. We are therefore

As to the relation of the sibilant s to r, we must ascribe to the sharp s, which is produced with a steady tongue against the upper row of teeth, an unqualified precedence over the trill. It is therefore a recognized fact in the history of language that where there is a change between s and r the priority belongs to the s (Pott i¹. 131, Diez 'Vergl, Gr.' i. 222). The converse transition, that of an r within a word to a soft s(z), e.g. $p \nmid ze = p \nmid re$, has been established from French dialects of the sixteenth century (Joret 'Mémoires' iii. 155). In Greek and Latin it does not come into consideration. The 'Zitterlaut' [trill], as Brücke calls it, can be produced at different places in the mouth, especially either at the back of the palate, or with the point of the tongue at the root of the upper row of teeth. We may probably assume that it is only the latter sound, described by Brücke² p. 58, which can originate immediately in the dental sibilant, inasmuch as it closely approximates to the place of its articulation. Hence Corssen i². 238 justly deduces from the frequent origination 453 of a Latin r from an earlier s the more dental pronunciation of the former sound, and he properly connects with this the change from d to r in the same family of speech, which may be compared with respect to the place of articulation. The Teutonic change of these sounds may best be compared with the Italian. In both families it is found especially in the middle of a word between two vowels, but also at the end. It seems to be quite unknown at the beginning.

With the Greeks, it is only in a few dialects that σ passes into ρ . The discovery of inscriptions has made not unimportant new contributions to our knowledge of this. We now know of two kinds of rhotacism. The one attacks only a sigma between two vowels within a word, and has been established by an inscription from Eretria, ascribed to the fourth century B. c. and published first by Eustratiades in the $A\rho\chi\alpha\iota o\lambda o\gamma\iota \kappa \dot{\eta}$ $E\phi\eta\mu\epsilon\rho\dot{\iota}s$ $\Pi\epsilon\rho$. Beta, $E\phi\eta\iota \epsilon\dot{\iota}$ (1872) No. 417. This rhotacism therefore corresponds to the Latin, but with the difference that it does not, as with the Romans, attack

by no means justified in assuming such a change for the time before the separation of languages, to which we can by no means ascribe such lax articulation. an original o, but so far as we see at present only one of later origin : ὁπόραι = ὁπόσαι, ἄρχουριν = ἄρχουσιν, ὁμνυούρας, παραβαίνωριν. — The second kind conversely shows itself especially at the end of a word: $\tau i \rho = \tau i s$ (Laconian), but never in the middle of a word between vowels, but only before consonants. Elic κορμήται = κοσμήται (cp. car-men for cas-men Corssen 'Beitr.' 406). The sphere of this second rhotacism is Elis and Laconia. In Elis we can now trace in inscriptions the spread of the ρ. The ancient Γράτρα (C. I. No. 11) shows the forms rois and roip, ris and rip side by side, the older forms before vowels, and at the end of a division, the later before consonants. The inscription of seven lines from Olympia, published by Kirchhoff in the 'Archaeol. Ztg.' Jahrg. 35 p. 197 shows 71s only before a following σ (αὶ δέ τις συλά), but τοῦρ Χαλαδρίοιρ καὶ.... The inscription of Damokrates ('Archaeol. Ztg.' 1876 p. 183 ff.) from the time after Alexander, changes every final σ into p. Perhaps we may explain from similar conditions of the change in Laconia the surprising fact that no grammarian mentions it among the peculiarities of the Laconian dialect, and yet a considerable number of glosses in Hesychius leave no doubt as to its occurrence in Laconia. The great majority of these glosses, enumerated by Ahrens 'Dor.' 71 ff. show the ρ at the end of a word¹. We find the same in a solitary example in Aristophanes ('Lysistr.' 988 παλεόρ γα). If we suppose that the Laconians changed s into p only when final, 454 and before certain initial consonants, but elsewhere left it unaltered, we have an explanation on the one hand of the silence of the grammarians, who took as little notice of such a change as of ἐμ παντί, ἐγ καιρῷ and the like, and on the other hand of the Hesychian glosses, which may have been extracted by a gloss-writer from Laconian texts without noticing, or at any rate without paying any attention to, the context in each case. Even in Laconia rhotacism is decidedly a product of later times. This second rhotacism, which is to be carefully distinguished from the Italian, finds a certain analogy

¹ Mor. Schmidt 'Ztschr.' x. 206 proves that the change of σ into ρ in the middle of a word is not at all surely established for the Laconian dialect.

in the conditions under which a final s in Sanskrit passes into r, though these again are much more limited, and differ in many respects. But we cannot fail to see that the difference in the facts points to different natural causes, and consequently for the local dialects 1 which have this second rhotacism, to a relation between σ and ρ entirely different from the Italian. Of another Italian characteristic, i.e. the connexion between the r and the d, we cannot find the slightest trace in Greek, while the breathing, with which initial p was written 2, essentially distinguishes the Greek trill from the Italian. Perhaps it is probable from these facts that the Greek p, at any rate in the majority of dialects, was produced further back in the mouth, a view to which Kuhn 'Ztschr.' iv. 31 was also led by his investigations 'on the phonetic developments connected with s.' But in any case we may distrust all etymologies of ordinary Greek words which are based upon this change, a point upon which Pott ('Personennamen' p. 29) has justly again laid stress. But etymologies are still always being proposed, resting upon this assumption, and indeed the converse transition from ρ to σ is not wholly unheard of. On this rests O. Müller's explanation of Πελασγοί from rt. πελ and apyos, but although, apart from this, the F preserved in the El. Fάργον, Lacon. βέργον disproves this etymology in the case of so old a word, it still finds supporters.

The other changes of a continuous sound into one of another class are reduced to the sporadic representation of F by ρ and the interchange between F and μ. The former substitution is limited to the Cretan dialect, and is indeed really established by only one certain instance, i. e. τρέ σέ Κρῆτες (Hesych.), where τρέ has originated from τFε (Ahr. 'Dor.' 51, above p. 77). How little authority there really is for δεδροικώς, which is commonly said to be for δεδΓοικώς, may be

We may add the isolated Theraic ΟΥΡΟΡΑΘΑΝΑΙΑΣ (Weil 'Mittheilungen d. deutschen arch. Instituts in Athen.' ii. 77).

² There is a remarkable anticipation of the later way of writing the letters, established by the grammarians, in PHOFAIXI on the old inscription of Arniadas of Korkyra, discussed by Ross, 'Jahn's Jahrb.' vol. lxix. p. 544,—so far as I know the only one. It is true that here the breathing follows the r, after the Latin fashion: Rhodus.

seen from M. Schmidt's Hesvchius. The MS. has δεδροικώς δοικώς 1. I conjectured on No. 572 that the curious ρίγα σιώπα, derived from the same source, by the side of ίγα· σιώπα Κύπριοι, was to be traced back to σριγα, σΓιγα, and so reconciled with the ordinary Greek σίγα. The influence of a dental in juxtaposition is certainly to be taken into account in such cases, and a wider conclusion as to the affinity of the sounds F and ρ must not be based upon them. Kuhn 'Ztschr.' xv. 320 adduces Teutonic examples of r for v. Ferrar 'Comparative Grammar' i. 12 regards the ρ here as the interlabial trill, which certainly could easily originate in the labial aspirate. Grassmann ('Ztschr.' ix. 8) well connects the change of the F into p with the transition of the same spirant into l, which is unmistakeable in some Slavo-Lettish words (cp. above No. 252). Still we cannot follow him in assuming the gradual intermixture of an r with v, and unpronounceable roots like dhvran. L. Havet ('Mém.' ii. 317) takes the r to be due to a mistake of the grammarians, who, in reading the word, took the character F for P, in which case we should have to assume F in all the cases. But though I and T, both of which in Hes. stand for a mis-read F, do come near the digamma in form, P 456

¹ The view of the same scholar that the ρ was sometimes inserted in the Cretan dialect, as in Fr. perdrix=perdix (Diez i. 439) cannot be considered proved by the few and (in part) extremely uncertain glosses, which he quotes on behalf of it 'Ztschr.' xii. 214. Among these one is: ἄτρεγκτος ἄβροχος, i. e. ἄ-τεγκ-το-ς, in which we cannot fail to see that To again corresponds to an Indo-Germ. tv., for at No. 234 we connected τέγγω with Goth. thvaha. But further the view that these glosses are Cretan is by no means established to the satisfaction of every one. (Cp. Rödiger 'Ztschr.' xvii. 314.) - A 'parasitic' r springing up after dentals, and gradually turning them into linguals, is conjectured also by J. for the Indian languages ('Or. u. Occ.' iii. 383) with the approval of Benfey. The latter 'On some Pluralforms' Gött. 1867 p. 15 actually makes an r 'hang on' (anschiessen) to an n, probably only a new and not very gentle way of saving the assumption of the change of an n into r mentioned on p. 452. How little the Greeks at any rate liked this 'hanging on' is shown by avδ-p-ós, cp. Fr. cendre = cinerem. But besides, it is really too much to ask us to believe in this.

does not. In Latin, some examples of cv changing into cr have been assumed (Grassmann 13); but some of these may be otherwise explained, and some need more thorough investigation after what Corssen 'Beitr.' 408 has said on the other side.

The relation of the two labial consonants μ and F will have to be discussed below. It would hardly be possible to establish any physical reason for the priority of either.

(A) Sporadic transformations of explosive sounds.

Now that we have been led by the preceding considerations to a common foundation for all sporadic transformations of sound, and have obtained a general view of the direction they take, we proceed to examine the changes in detail. In so doing we naturally start with those consonants which may be regarded as the most essential and significant elements of language. These are the explosive sounds, commonly called mutes. Of these again the tenuis must universally rank first and the medial and aspirate follow.

As we have seen, of all this class of consonants the gutturals are exposed to the most disfigurations. We have now to ascertain the extent and direction of their sporadic transformations in Greek. First we will examine the change of gutturals into labials, which may be aptly called Labialism.

1. LABIALISM.

One of the earliest observations of comparative grammar was to the effect that several languages frequently show a p for an original k which is often represented in Sanskrit by k, and the labial media b for a g and its Indian representative g. The facts themselves are, however, not enough; we must try and find the origin of a phenomenon at first sight so surprising. Lepsius was, as far as I know, the first to attempt to account for it. In his 'Sprachvergleichende Abhandlungen' p. 99 he arrives from an original k at p by the intermediate 457 steps kv, kp. But kp, as Pott has already objected against Lepsius ('Zählmethode' p. 176 n.), is too harsh a group of

sounds, and moreover never occurs in any simple Indo-Germanic word at all, and we cannot imagine its existence in the primitive Indo-Germanic tongue, especially at the beginning of a word. But as we see, in the case of du, bellum, and bonus, and bis springing from the Old-Latin duellum and duonus and the assumable duis1, kv will serve well enough as the intermediate step between k and p. For kv is to p as du is to b. The labial spirant v affected a preceding k or g in such a way that these letters moved from the guttural organ to the lips, but on becoming pv and bv they expelled the spirants themselves, and simple p and b were left. We find a striking analogy in the Sardinian dialect of Italian in which, as is alleged by Stier 'Ztschr.' xii. 156, and Delius 'Der sardinische Dialekt des 13. Jahrhunderts' Bonn 1864, the Lat. quattuor becomes—with softening of the tenuis to the medial -battor, aqua abba, quinque quimbe, guardare bardare, and lingua limba. Abundant instances of other kinds are given by Ascoli, whose comprehensive treatment of labialism 'Fonol.' p. 58 ff. (Germ. transl. p. 49 ff.) may here be referred to. The intermediate step above assumed may in many cases be actually seen :- often in Latin, occasionally, though perhaps not in its integrity, in Sanskrit and Lithuanian. To start with the latter case, it is clear that "ππο-ς with the by-form ikko-s are to be compared directly with equo-s, and consequently that $\pi\pi$ and $\kappa\kappa$, the result of assimilation, are here the representatives of kv. To this same kv we are brought by the Skt. α_{c} -va-s and the Lith. fem. asz-vd ('mare' = Skt. α_{c} v $\bar{\alpha}$), so that ak-va-s is here firmly established as the primary form. Moreover etymology confirms the view that the k was primitive: for it is very probable that the root of the primitive name of the horse, which is preserved also in the Old-Sax. ëhu, is ak 'to be swift,' 'keen' (No. 2, cp. Pott. W. i. 525). We remain true then to our method of using what is clear to help us to the knowledge of what is not easily discernible, in pronouncing a Greek π , where it is confronted by an older k, to be in all cases the product of a pre-Hellenic kv. The circumstance that

¹ Ascoli well compares ('Fon.' Germ. Trans, 59) the provincial German eppes—etwas.

Latin has as a rule preserved this group of sounds in the form of qu, whereas Umbrian and Oscan as well as Greek in the majority of its dialects adopt the labial, inclines us to the belief that the kv belongs in such cases to the Graeco-Italic period.

458 In the example just discussed the v appears in several languages as a fully developed sound standing by the side of a guttural. In all other cases the same v appears as a subsequent addition to the simple k. For instance, the Lat. quo= Goth. hva of the interrogative stem is represented in Skt. by ka. We have however here to deal with the k which on p. 87 we saw must be distinguished from k, and which we thought we could define as a sound made right at the back of the palate. Various attempts had previously been made by different scholars to prove that the labial parasite of this k was a primitive sound. Since Fick's important investigations it seems to have become the generally accepted view that it is to this k alone, a sound now recognized as fundamentally distinct from k, to which we can attribute the tendency to produce after it the sound in question, a tendency which out of k in Latin produced in many instances a kv (qu), in Teutonic hv (later w alone), in most Greek dialects and also in Umbrian and Oscan—through a preliminary κF —a π , while the remaining languages, like the later Ionic with its κ in the interrogative stem (κῶς, κότερος), kept the simple guttural. In the place of the latter the palatal k is of specially frequent occurrence in Sanskrit and Zend. The language which shows the closest resemblance to the Greek and Umbrian and Oscan is the British branch of the Keltic family with its late developement of a p: e.g. Cymr. puy 'quis,' petguar 'four,' while Old-Irish has abandoned the labial parasite and reinstated the guttural in its integrity: e.g. cia 'quis,' cethir 'four' (cp. Windisch 'Beitr.' viii. 25). Thus regarded the whole phenomenon ceases to look fortuitous or capricious. Our reason for ssing the production by a guttural of a labial among the adic sound-changes is this, that Greek by no means ex $a \pi$ in all the words for which we must assume an old r example the κ of ϵ-λακ-ο-ν, λέλακα (No. 85) is shown Lat. loqu-o-r to be the k which has a tendency to labialism, but the tendency has in this root produced no result in Greek. The same may be said of $\kappa\alpha\pi$ - $\dot{\nu}$ - ω , $\kappa\alpha\pi$ - $\nu\dot{\nu}$ - ε (No. 36) by the side of the Lith. kvap- α - ε and the Lat. vap-cr (for *cvap-cr) and of many other words besides. The same want of uniformity is to be seen in the British Keltic.

I think it is beyond a doubt that the same explanation applies to the change of g into β . The Lat. ve-n-io (No. 634) bears to the rt. $g\bar{a}$, the same relation that vap-or bears to the rt. kap: it clearly points to a * gven-io. The change of gv to b, corresponding to that of kv to b, occurs in the Umbrian ben-ust and the Greek $\beta \alpha iv\omega$. In the case of the medial the labialism is confined to a still smaller number of stems. The antiquity of the parasitic labial is attested here too by many Teutonic words: e.g. by the OHG. $quillu = \beta \acute{a}\lambda\lambda\omega$ (No. 637) 459 quiu- $s=v\bar{\imath}$ -vu-s, cp. $\beta i(\bar{\imath})$ -o-s (No. 640), as well as by the Keltic b, which occurs e.g. in the OIr. biu= $v\bar{\imath}vu$ -s, and in the OIr. $b\acute{o}$ = $\beta o\hat{\imath}$ -s, Lat. $b\bar{o}$ -s.

It is remarkable, as Hugo Weber points out ('Etym. Unters.' i. p. 3), that the majority of instances of Greek labialism are never found at the beginning of a word except before a vowel, and never in the middle of a word except at the end of roots which were originally immediately followed by a vowel, that is, in cases in which the assumed kv, qv were easily pronounceable. Accordingly there will be no need to assume sound-formations like kvr, gvl. The only exception is βρέφος No. 645, in which case however it is not a far-fetched assumption that it arose by metathesis from *βερφος (cp. κράτος by the side of κάρτος). A similar exception is to be found in the OIr. broo, bro 'millstone, gen. broon, bron, by the side of the Skt. gravan 'stone used for pressing out the Soma-juice,' but here too, no doubt, gar was the real form of the root. On the other hand the recognition of this view casts suspicion a priori on many more venturesome hypotheses; e.g. that combated by me 'Ztschr.' iii. 415 as to the comparison of $\pi \rho \acute{a}\sigma \sigma \omega$ with the Skt. $kr\bar{\imath}$. We will now proceed to the cases in which we believe we can with certainty set down a Greek m as the representative of an Indo-Germanic k.

A.

A Greek π corresponds in the following cases to an Indo-Germanic k, which is frequently represented by p also in Umbrian, Oscan, and Brito-Keltic, by qu in Latin, not seldom by hv in Teutonic.

620. Root feπ call, say, aor. ĕ-(f)ειπ-ο-ν, εἶπ-ο-ν, ἔπ-οs word, verse, ὄψ (st. ὀπ) voice, ἐν-οπ-ή a cry, noise. Skt. rt. vak (ví-vak-mi, vak-mi) say, speak, vák-as word, song, vāk speech, voice, vāk-ja-m utterance, speech, vak-ana-m recitation. — Zd. vac (m.), vac-aṅh (n.) word.

Lat. vox (st. vōc), vŏc-ā-re, con-vīc-iu-m, prae-(vi)c-o. OHG. wah-an (pret. ga-wuog), ga-wah-anjan mention (Germ. erwähnen), gi-wah-t mentio.

OPruss. en-wak-ê-mai invocamus, ChSl. vyk-anije clamor, Serv. vik-a-ti vociferari.

OIr. iarma-foich quaerit, iar-fact quaesivit, iar-faigid quaestio.

Bopp 'Gl.,' Pott W. iii. 268, Windisch 'Beitr.' viii. 444, Van. 858 ff. - Sonne 'Epilegomena' p. 59 and Ebel 'Ztschr.' ii. 46 discuss the agreement of the reduplicated aor. which is contracted from è-Fε-Fεπ-o-v with the Skt. form a-vok-a-m which arose out of a-vavak-a-m. — On the f in Fείπην (perhaps more correctly Fήπην Ahr. 460 'Aeol.' 90) and Féπos, Ahr. 'Aeol.' 31, 171, 226, and ἄσσα, in which there is nothing to preclude a F, Knös 82 ff. — εὐρύ-οπα as the 'farresounding ' (cp. Κρονίδαν βαρυ-όπ-α-ν Pind. ' Pyth.' vi. 24) is plausibly referred here by Döderlein 'Gl.' 509, Goebel 'Ztschr. f. österr. G.' ix. 783. — The old guttural which was protected by the j is discernible in οσσα for δκ-ja, which is a fem. corresponding to the Skt. neut. vāk-ja-m of like meaning, perhaps too in "I-akx-o-s for Fi-Fakx-o-s by the side of Báryo-s, if the god is named from the shouts and cries uttered at his festivals. - Even after Corssen's objections ('Beitr.' 18, i2, 482) I think Fleckeisen is probably right in connecting the Lat. in-vitare and explaining it to be for invic-i-tare, invictare ('Rhein. Mus.' viii. 221). Cp. note to No. 17 and Jahn's 'Jahrb.' 1865 p. 126. [But cp. Nettleship 'Journal of Philology' v. 20.] On the other hand Corssen p. 72, ii², 360 makes it probable that con-viciu-m and not, as Fl. assumed, convitium is the best authenticated spelling. In this case we must with C. assume a rt. vec as well as voc (cp. votare by

the side of vetare), and derive thence con-vēc-iu-m, like con-lēg-ium, and thence convīcium (cp. delīnio by the side of lēnio). From this form of the root again (i.e. vec) we must derive the above-mentioned *invicitare to which invītare was referred. — According to Stokes 'Rem.²' p. 39 another word which belongs here is duacthar 'loquitur' Ml.' 51°, for du-facthar (?). — There is no connexion whatever with the rt. $\sigma \in (No. 6 2)$.

- 621. Root ἐπ (for σεπ) ἔπ-ω (ἀμφι ἐφ μεθ' δι), aor. ἔ-σπ-ο-ν am busied about something, ἔπ-ο-μαι follow, aor. ἐ-σπ-ό-μην, ἐπ-έ-τη-s attendant, ὅπλο-ν implement.
 - Skt. rt. sak ($sák-a-t\bar{e}$, si-shak-ti) be together, follow, sap ($sáp-\bar{a}-mi$) fasten to, concern oneself about, strive after, sak-i-va-s companion.
 - Lat. sequ-o-r, sec-u-ndu-s, ad-sec-la, sec-to-r, pedis-sequa, soc-iu-s.
 - Lith. sek-ù (inf. sék-ti) follow, come after.
 - OIr. do-seich sequitur, subj. dep. airesechethar ut sequatur, sechem secutio, sequi, sochuide societas, copia.

Bopp 'Gl.' s. v. sak and sap, Benf. i. 430, ii. 356, Pott W. iii. 304. - On the development of the meaning in Skt. Grassmann 'Lex.' under sak. Cp. Delbrück 'Abl. Loc. Instr.' p. 55. For Greek the relation of the meanings of έφέπω and έπομαι is instructive. έπομαι has originally, and in Homer exclusively, the meaning 'accompany,' whence dμ' επεσθαι, not 'come afterwards,' and this confutes the attempt to explain επονται A 424 by 'will follow,' and also Buttmann's explanation of δπλότερος as 'the younger' ('Lexil.' ii. 126). On the other hand the primary meaning justifies the comparison of δπ-λο-ν which originally meant not 'weapon' but 'implement' and can hardly have anything to do with the Goth. vêpna (n. plur.), OHG. wdfan. — The Lith. sek-ù has moreover this special point of resemblance with the Lat. sequor that it also takes the acc. (Schleicher 'Lit. Gr.' p. 262). The same construction is given for the Skt. sak and sap. In the earlier writers επομαι takes the acc. perhaps only in Pind. 'Nem.' x. 37, and there with a special meaning. — Just as the original σ is still retained in ε-σπ-ο-ν ε-σπ-ό-μην ('Gk. Verb' p. 294), so perhaps the Hom, α-οσση-τήρ 'helper' may be regarded as one of those forms which preserve the effect of the original κ in the $\sigma\sigma$. 461 In that case it would stand for a-conjn-rnp. Heaven, gives the by-forms ἐοσσητήρ, ὀσσητήρ = βοηθός, ἐπίκουρος. — Windisch in Kuhn's 'Beitr.'

viii. 25 distinctly denies that in Skt. p arose from k, so that we must assume sak and sap to be 'a pair of roots with different determinatives.'

— The Ir. saigim 'adeo' connected with this root by Ebel 'Beitr.'
ii. 165 and the Goth. sôkja must alike be separated from this root.

622. ηπαρ. — Skt. jakṛt (n.) — Lat. jecur. — Lett. ak-ni-s liver.

Bopp 'Gl.,' Pott i'. 113. — The k which is attested by three languages is represented by a π only in Greek. I take $\mathring{\eta}\pi a\rho\tau = jakart$ as the Gk. stem, and assume that $\mathring{\eta}\pi a\tau$ the primary form of the remaining cases has lost a ρ , just like $\pi o\tau i$ for $\pi \rho o\tau i$. Cp. No. 626. The root is to be found in the syllable jak. Hence with a different suffix is formed the Skt. jak-an, the basis of the oblique cases. In the Lat. jec-in-or-is we get the n- and r- suffixes combined, while the Lett. form shows only n. — For an answer to Kuhn's explanation ('Ztschr.' i. 379, ii. 141 ff.), which is different, see Sonne 'Ztschr.' xii. 294, and Fick. i³. 729.

623. Root in iπ-το-μαι hurt, iψ (st. lπ) a noxious worm, îπ-ο-s a wooden bat (in a mouse-trap), fuller's press.

Lat. ic-o, ic-tu-s.

Sonne 'Epilegomena' 51 ff. - Hesych, gives the active forms Was, Was. From among many doubtful conjectures we may select as almost certain that of the original identity of "& and "4 (the name of noxious worms), of which the former would thus be the older of the two. Probably too "π-νη 'woodpecker' is related, so that the primary meaning of the root is 'hit.' Van. 82 connects also Ικ-τῖ-νο-ς 'falcon,' which would furnish another instance of the original k, as does possibly "κ-ρι-a 'boarding,' 'scaffolding,' 'deck,' the proper names "Ικ-αρο-ς, 'Ικ-μάλιο-ς (τέκτων τ 57), "κταρ 'near,' cp. p. 115, and finally the Cyprian ikuauévos 'wounded' ('Tablet of Idalion' 1.4), according to Ahrens's probable explanation ('Philol.' xxxv. 36). Since la-o-s meant on the one hand 'wooden bat,' 'mousetrap,' on the other to take κναφέων έργαλείον (Pollux vii. 41) it comes in very well here. Derived from the latter meaning again, as Pollux rightly remarked, is ἰποῦσθαι = $\frac{\partial \pi}{\partial t} \frac{\partial r}{\partial t} \frac{\partial r}{\partial t} = \frac{\partial r}{\partial t} \frac{\partial r}{\partial t}$ It is possible too that $\frac{\partial r}{\partial t} \frac{\partial r}{\partial t} = \frac{\partial r}{\partial t} \frac{\partial r}{\partial t} = \frac{\partial r}{\partial t} \frac{\partial r}{\partial t}$ form ενίπτω) along with εν-ίπ-απ-ο-ν, εν-έν-ίπ-ο-ν (cp. εν-ίπ-ή) belongs here; it would thus properly mean 'drive at,' hit at' (cp. ἐπιπλήσσειν, έμπλήσσειν). Το explain lπ-απ-ο-ν however we must assume lan as a by-form to la ('Gk. Verb' p. 292). — Savelsberg 'De Digammo p. 46 agrees with the 'E. M.' in connecting the name of the river 'Ενιπεύς with this verb, but he takes the verb quite differently, and is perhaps right in holding the Scholiast's reading in Pind. 'Ol.' xi. 72 'Ενικεύε (var. lect. Νικεύε) to be the older one, connecting it with ἐνίσσω, especially as 'Ενισεύε is also found. — I cannot agree with Fick 'Bezzenb. Beitr.' i. 59 in holding that this rt. lk has any connexion with the Skt. aç (No. 2), a supposition that would oblige us to separate it entirely from the rt. lπ. Cp. the note on No. 24 b.

624. ἴππο-s horse, ἰππότα horseman, ἵππ-ιο-s pertaining to horses. — Skt. άçνα-s (Zend. αç pô) horse, αçνα- 462 tarά-s mule, άçνjα-s = ἵππιο-s (Zend. ας pya). — Lat. equu-s, equa, eque(t)-s, equitare. — OSax. ëhu horse. — Lith. aszvà mare, aszu-ta-í horsehair. — OIr. ech equus, echai e mulio, Epo-rêdia, Cymr. ep, eb equus.

Bopp 'Gl.,' Joh. Schmidt 'Rt. AK' p. 45, Pott W. i. 525, Ebel 'Beitr.' ii. 161, Stokes 'Ir. Gl.' 17. Cp. above p. 457. - The Greeks have preserved the special feminine form only in the proper name Ίππη-μολγοί. The guttural form ικο-s is attested by 'E. M.' p. 474, 12 (ἴκκος σημαίνει τὸν ἵππον) and by the proper name "Ικκος (Tarentum, Epidaurus). The spir. lenis is preserved in the proper names Λεύκιππο-ς, "Αλκ-ιππο-ς, Νίκ-ιππος, 'Αρίστ-ιππο-ς, Κράτ-ιππο-ς, etc. (Pott W. i. 533), in the Lesb. $lm\pi \iota \iota \iota s$ (Ahr. 'Aeol.' 29), in the Siceliote $l\pi \iota \iota \eta =$ έφιππίς (Hesych.) i.e. λππ-ωή equīna, sc. 'pellis,' 'vestis.' In this, as in many other cases to be discussed below, the spir, asper took its place in the course of time. The proper name "Iππυ-s (of Rhegium) is remarkable. — On the i by the side of the Lat. e, Skt. a, cp. below p. 712. Pott ii1. 260 also connects Επ-ειός the name of the constructor of the Trojan horse, but this is doubtful. - Italian forms with the p are Ep-ona ('Juvenal' viii, 157) 'goddess of horses and asses' (Preller 'Röm. Myth.' 594), perhaps the Campanian Epidiu-s (Mommsen 'Unterital. D.' 258, cp. Corssen 'Ital. Sprachk.' 126 ff.). - The Indo-Germanic primary form akva is, according to Jac. Grimm's conjecture ('Üb das Verbrennen der Leichen' p. 18) preserved in the Goth, aihva-tundi 'thorn-bush' more accurately than in the OS. ëhu. The root is probably ak (No. 2). - The Gallic Eporedia (the name of a town), 'eporedias Galli bonos equorum domitores vocant' (Plin. 'H. Nat.' iii. 17 (24)), Glück 'Kelt. Namen' p 144; with eporêdias (-os?) cp. Cymr. ebrwydd 'quick' (rwydd = OIr. riad 'cursus,' OGall. rêda 'currus').

625 Root λιπ λείπ-ω λι-μ-π-άν-ω leave, abandon, λείμ-μο λείψανο-ν remnant, λοιπ-ό-ς left.

Skt. rt. rik (rinák-mi) to clear off, empty, evacu

rík-ta-s or rik-tá-s empty, clear of something. Zd. ric forsake.

Lat. linqu-o, re-linqu-o, re-liqu-u-s, lic-e-t, Osk. lik-i-tud = lice-to, Lat. lic-e-o-r.

Goth. leihv-an δανείζειν, lend.

Lith. lëk-ù, Inf. lìk-ti remain, leave, lékα-s left over, palaiki-s what is left over.

OIr. lécim I leave, let loose, ro-léiced concessum est, dollécim I throw.

Bopp 'Gl.,' Benf. ii. 11, Ebel 'Beitr.' ii. 157. — The primary meaning, 'leave,' 'leave free,' i.e. 'unoccupied,' is evident throughout. licet ('it is left to one,' 'open to one,' cp. καταλείπεται, ὑπολείπεται) is the intransitive to linquere, and is related to it as pendet is to pendere, jacet to jacere, candet to accendere. For the meaning we may also compare ἔξεστι, ἐκπέλει. licet in the meaning 'it is for sale' (cp. the Engl. to let) leads to liceri 'to bargain,' 'bid,' 'give oneself up to one another,' from which we arrive at pol-lic-eor, the first part of which compound has been discussed on p. 285. Cp. Corssen i². 500 f.

463 Fick i³. 753 is perhaps right in placing none of the Teutonic words here but those with an h (from k), e.g. the German leihen, verleihen in the sense of 'abandon,' 'give over,' while he gives those with f and b under the rt. lip (No. 340). So Pott W. iii. 225. — Perhaps λίσσωμεν ἐάσωμεν (Hesych.) contains traces of a Greek λω; it would then be for λω-jω-μεν, but it is not in its right place alphabetically and is therefore a suspicious word. Otherwise M. Schmidt s. v., though he states a different view again 'Rhein, Mus.' xviii. 630. — The Lat. liqu-ēre too and līqui along with liqu-or, liqu-idu-s may be annexed to this root, since the Germ. lassen ('leave,' 'let') and zerlassen are used in the sense of 'let flow,' 'liquefy,' and there is a Zend. rt. ric 'pour out,' which Justi is perhaps right in identifying with ric 'give over' (cp. Corssen i². 502).

626. Root μαρπ μαπ μάρπ-τω grasp (aor. ἔ-μαπ-ο-ν, μέμαπ-ο-ν Hesiod), μάρπ-τι-ς robber.

Skt. rt. març lay hold of, in comp. seize, grasp, comprehend, març-ana-m a touching (?).

Lat. mulc-ēre, mulc-āre.

This comparison rests on the identity, recognized by Lobeck 'Rhemat.' 48 between βράξαι συλλαβείν (Hesych.) and μάρψαι συλλαβείν, to which may be added βρακείν συνιέναι ('comprehend'), δυσβράκανον δυσχερές, δύσληπτον, δυσκατανόητον. — To the forms with κ seem to belong the proper names Μάρμακος, Μάρμαξ, and perhaps ἀ-μ-β-λακ-είν

627. Root on see $(\delta \pi - \omega \pi - \alpha, \delta \psi \circ \mu \alpha \iota)$, $\delta \mu - \mu \alpha$ (Lesb. $\delta \pi - \pi \alpha$), look, eye, $\delta \psi$ (st. $\delta \pi$), $\delta \psi \iota - s$ sight, face, $\delta \pi - \tau \eta \rho$ spy, $\delta \pi - \bar{\iota} \pi - \epsilon \psi \epsilon \iota \nu$ ogle, make eyes, $\delta \pi - \bar{\eta}$ (peep-hole) hole, $\delta \pi - \epsilon \alpha s$ awl, $\delta \phi - \theta - \alpha \lambda \mu \delta - s$ eye.

Skt. $ak-sh-\acute{a}-m$, $ak-sh-\acute{a}n$, $\acute{a}k-sh-i$ eye, st. $\bar{\imath}k-sh$ see, look, $\acute{\imath}ksh-a-\check{\imath}a-m$ look, eye. Zd. akhsh see, ashi eye.

Lat. oc-ulu-s.

Goth. aug-δ όφ-θαλμός, aug-jan show.

Lith. (at) ank-\(\pa\) inf. \(\delta k-ti\) to have one's eyes opened, \(ak-\pa-s\) eye, \(\delta k-a-s\) a hole in ice; ChSl. \(ok-o\) eye, \(ok-no\) fenestra.

OIr. aged face, in-agid adversus; ainech, enech, Cymr. Arem. enep facies, Corn. eneb pagina, Arem. aenep adversus.

Bopp 'Gl.,' Pott W. ii. 2, 302, Diesenbach 'Vgl. Wörterb.' i. 53, Grimm 'Deutsches Wörterb.' i. 789, Schleicher 'Ksl.' 97. — For a discussion of the meaning see p. 101; it may be added that in this respect the aor. ἐπώψατο 'conspexit' (Pind. fr. 58 Bergk) and ἐπιόψομαι (β 294), 'I will look out,' 'select' (with the aor. ἐπιώψατο) are characteristic. — The original κ occurs in the Boeot. ὅκ-τ-αλλο-ς· ὀφθαλμόν Hesych., on the formation of which words see Ludw. Schwabe 'De deminutivis Graecis et Latinis' p. 84; it is beneath the surface in ὅσσε (neut.) = ὁκι-ε, where the sibilant finds its correlative in the ChSl. οἔι the dual of οko. The st. ὀκι corresponds completely to the Lith. αki. It is again traceable in ὅσσομαι = ὀκ-jο-μαι, 'look,' perhaps too in "Οσσα. Cp. I. Bekker 'Monatsber.' 1864, 12. In the form ὀττι-ς too, which occurs in τρι-οττί-ς (Arcadius p. 35, 12) properly 'three-eyes,' but used only of a neck-ornament

with three holes, with the by-form τριοπίς preserved by Hesych. (περιτραχήλιον τρείς έχον οφθαλμούς ύαλους), the ττ must owe its existence to the older κ. - Among the forms with π we may notice specially οπ-ίπ-α-s and οπ-ίπ-εύω (corrupted into οπ-ιπ-τεύ-ω) as reduplicated forms (cp. δνίνη-μι and ην-ίπ-απ-α-ν No. 623, in which latter case the order of the syllables is transposed). For δφ-θ-αλ-μός two natural explanations suggest themselves as opposed to attempts such as those of Pott ii2, 413, 590, 781 (rt. θαλ 'the bloom of the face'), in which he owns to some hesitation; either that it is from a root (cp. p. 62 ff.) with an affixed θ (cp. $\epsilon \sigma - \theta - \hat{\eta}(\tau) - s$), when the multiplicity of suffixes might perhaps be explained by the assumption of a verb οφθαλλω as middle step which had perhaps the meaning 'eye,' 'ogle,' or that it came by aspiration from ôπταλ-μο-ς (Roscher 'Stud.' i. 2, 105), in which case we should have to assume a verb οπταλλω coming near to the Boeot. ὅκ-τ-αλλο-s. — Ebel (' Ztschr.' viii. 242) and Grassmann (ix. 23) explain the diphthong of the Teutonic word by assuming metathesis - with the assumed ah-va we might compare the Gk. ок-fo later ок-ко, — Lottner (ix. 319) otherwise. Fick it. 4 connects also the Goth. aha vous, ahjan vouigew, to which belongs the Germ. achten 'consider.' The diphthong (in the Goth, augô) is explained by Möller 'Ztschr.' xxiv. 436 by the epenthesis of the u which was originally sounded after the g (agu-an), i.e. by the same element which produced labialism in Greek. — δράκ-ων (No. 13) makes it seem probable that σφι-s 'serpent' belongs to this root (cp. Hesych, πρόωφ-ο-s' πρόσκοπος), its trochaic scansion in αίδλος όφις in Hom. and Hipponax fr. 49, 6 points perhaps to *δκ-Fi-s (cp. p. 505); ὅπεας (byform οπεύς) is no doubt rightly explained by Joh. Schmidt ('Die W. AK' p. 27) to be the 'maker of holes' (δπάς). — In this essay (cp. Tobler 'Ztschr. für Völkerpsych.' i. 366) the rt. δκ, δπ is identified with the rt. ak (No. 2), to be sharp,' in which case the eye would have got its name from its keenness. But we can now see that this explanation is inadmissible owing to the difference between the two k's: 'to be sharp, 'to penetrate' is ak, 'to see' is ak. - On the Keltic words cp. Windisch 'Beitr.' viii. 45; they remind us forcibly on one side of the Gk, ἐνωπῆ, ἐνώπια, ἐνώπιον, and on the other of the Skt. άπīka 'face,' front.

628. This number I now omit, because, after the investigations of Fick i³. 16, 801 and Pott W. v. 205 on the subject of δπό-s and sūcu-s, I doubt whether these words are identical. On δπό-s, σοφό-s, σήπεω, sapere, cp. below p. 512.

629. πέντε (πεντά-πολι-s, πεντά-δραχμο-s) Aeol. πέμπε, πέμπ-το-s. — Skt. pañkan. Zd. pañcan, Ved.

pañka-thá-s, Zd. pukh-dha = πέμπ-το-s. — Lat. quinque, quin(c)-tu-s, Quinct-ili-s. — Goth. fimf. — Lith. penki, ord. pènk-ta-s, ChSl. pe-ti, ord. petyj. — OIr. cóic, ord. cóiced, Cymr. pimp, ord. pimphet.

Bopp 'Vgl. Gr.' ii. 71, Schleicher 'Comp.' 399, 407, Windisch ' Beitr.' viii. 22. — For the Samnite Πόμπτιες, Pontius = Quintius, to which also Pomp-ēju-s no doubt belongs (cp. Petr-ēju-s; petora 'four'), 465 see Mommsen 'Unterit. D.' 289.—The π in πεμπάζειν (Homer, Aesch.) is remarkable, as also in πεμπάς (Attic) and πεμπτό-ς. For the latter cp. Havet. 'Mém.' ii. 265. — It remains a question whether we are to assume with Schleicher a primary form kankan, from which πέμπε would have arisen by a double labialism, or a primary form pankan, which would have been preserved most accurately in Lithuanian, while in the Lat. quinque the initial letter would have been assimilated to that in the middle of the word. It is argued against Schleicher by Friedr. Müller 'Beitr.' ii. 397 that reduplication appears unsuitable in a word for an odd number. The latter view is supported by Pott 'Beiträge' ii. 55, 'E. F.' i². 142, perhaps rightly. We have a certain instance of such assimilation in Boblicola, which is adduced by Bergk 'Ztschr. f. Alterthumsw.' 1856, p. 132, and a similar one in bi-bo compared with the Skt. pi-bā-mi (No. 371). Benfey 'Or. und Occ.' i. 573 collects other similar instances, though many are doubtful. Cp. No. 630. If we start with pankan as the primary form we may perhaps derive it from the rt. vak. which occurs in No. 384 as puk, in which case the number five would have been named from the closed hand.

680. Root πεπ πέπ-ων ripe, πεπ-τό-s cooked, πέψι-s digestion, late present πέπ-τω cook, πέμ-μα pastry, πόπ-ανο-ν sacrificial cake.

Skt. $pak' (pák-\bar{a}-mi)$ cook, bake, ripen, $p\bar{a}k-\hat{a}-s$ cooking, ripening, $pak-v\hat{a}-s$ done (of meat), ripe, $pak-t\hat{t}-s$ cooking, digestion. Zd. pac cook.

Lat. coqu-o, coquo-s, coqu-īna, cŭ-līna.

ChSl. pek-q coquo, peš-tř fornax, Lith. kep-ù bake, kep-ëje bakeress.

Corn. peber pistor, popei pistrinum, Cymr. popuryes pistrix, poeth hot; OIr. cucann pistrinum.

Bopp 'Gl.,' Pott W. iii. 173, Benf. ii. 88, Schleicher 'Ksl.' 88, Ebel 'Beitr.' ii. 143, Windisch 'Beitr.' viii. 22, Stokes ibid. 346. — We are here met by the same doubt that met us under No. 629,

whether we are to take kak or pak to be the original root. In this case too it is only Latin that has a double guttural throughout, and it is to be noticed by the way that good MSS, of Plautus and Vergil have more frequently quoquo and the like (Soph. Bugge 'Tidskr. f. Philol.' 1866 p. 36, cp. Corssen i2. 69). Perhaps we should connect κακκ-άβη 'pot,' 'pan,' where κκ may be explained to be from κf. A similar suffix occurs in κάνν-αβο-ς, κόν-αβο-ς, κόττ-αβο-ς, Έκ-άβη. Or is the word onomatopoetic like orroßo-s, apaßo-s? The Skt. and Slav. forms point plainly to the form pak, as does the older present $\pi i \sigma \sigma \omega =$ πεκίω. In Lithuanian its place is taken by kap, which meets us also however in the Gk. ἀρτο-κόπο-s 'bread-baker,' which cannot be separated from this root (Lobeck 'ad Phryn.' p. 222). Pott's attempt ii². 781 again to make a 'bread-hewer' (rt. κοπ) out of ἀρτοκόπος is a complete failure, and no help at all is to be got from χονδροκοπείον 'a cornmill.' With the Greeks themselves ἀρτοκόπος was equivalent to άρτοπόπος, and ἄρτον πέσσειν is the technical expression for 'breadbaking.' Fick i³, 519 assumes for these words a special rt. kap. Cp. 466 however σκέπ-τομαι and spec-io (No. 111). Lastly we have the double labial in pap, Gk. πεπ, whence too comes the probably Oscan pop-īna as correlative to the common-Latin coqu-ina. With this form we may perhaps connect εψ-ω for πεψ-ω, with an added σ (cp. ι-πτα-μαι for πιπτα-μαι) along with οψ-ο-ν, οπ-τό-s for ποπ-το-s and thence οπ-τάω 'roast.' For the transformation of the initial see p. 709. - For the meaning 'ripe' we may compare Cic. 'Cato' xix. § 71 'matura et cocta.' Starting from this point we arrive at the meaning 'soft' and in this way πέπον was used by way of endearment and abuse too. The notion 'ripe' in the special sense of 'ripe for death' is assumed by Osthoff ('Ztschr.' xxiii. 428) to account also for the OHG. feigi, which took later another shade of meaning, i.e. that of 'faint-hearted.' -Mommsen's assertion, that even to the Graeco-Italians 'baking' was as

631. Interrogative stem πο (New-Ion. κο) πό-θι, ποῦ where ? πό-θεν whence ? πῶs how ? πό-τε when ? πό-τερο-s which of two? πό-στο-s where in order? πο-ῖο-s qualis? πό-σο-s quantus?

yet unknown ('Hist. of Rome' vol. i. p. 20), is rendered doubtful by

this root.—The OHG. bahhan however belongs to No. 164.

Skt. ka-s, Zd. n. s. kô (fem. kā, n. ka-t) who? kva, Ved. kú-ha where? kú-tas whence? ka-thá how? ka-dá when? ka-ta-rá-s (Zd. ka-tâ-ra) which of two? ka-tamá-s which out of many? ká-ti how much? Zd. cvañt quantus?

Lat. quo-d, quō, u-bi (for quo-bi) = Umbr. pu-fe,

qua-m, quan-do, u-ter (for quo-tero-s), uter-que = Osc. pu-tiru-s-pid, Umbr. pu-tre-s-pe, quo-t, quo-tu-s, qua-ntu-s (Umbr. n. s. fem. panta), quā-li-s.

Goth. hva-s (fem. hvô, n. hva) who? hvan when? hva-r, OHG. hwâr, wâ where? Goth. hva-th whither? hva-thar, OHG. hwëdar which of two?

Lith. kà-s (m. and n.) who? kù-r where? ka-dà when? ka-i how? ka-trà-s which of two?—
ChSl. kŭ-to quis? ky-j (neut. koje) qualis? ko-toryj qui.

OIr. ca-te, co-te quid est? can unde? cach, cech (adj.), cách (subst.) quivis, cechtar uterque; Cymr. pa qui? pop (adj.), paup (subst.) quivis.

Bopp 'Vgl. Gr.' ii, 203, Aufrecht 'Umbr. Denkm.' ii. 37, Mommsen 'Unterit. Dial.' 290, Diefenbach 'Vgl. Wtb.' ii. 594, Schleicher 'Lit. Gr.' 195. - The treatment of this stem in the above works leaves nothing to be said about the several forms. In all languages we find the indefinite use side by side with the interrogative. The * survives not only in the New-Ionic forms κοῦ, κόθεν, κῶς, κότε, κοῖος, κόσος, κότερο-s but also in the ordinary Greek ε-καστο-s with the comp. έ-κάτερο-s, for it is unmistakeable that κα-στο-s is identical with πο-στο-s, and κα-τερο-s with πο-τερο-s. Since the initial F, of which Homer too gives traces, is attested by the four times repeated Féragros on the lately discovered Locrian inscription from Naupactus, the most natural account of the syllable Fe- is that it is derived from the reflexive stem (No. 601, Allen 'Stud.' iii. 248 ff., cp. Leo Meyer 'Ztschr.' xxi. 350 ff.). Fick i³. 33 is probably right in referring πό-σ-το-s to *\pi\sigma\tau-\tau-\sigma\tau \tau-t(i)\), while the Lat. quo-tu-s came from the 467 unexpanded stem. It may be left to others to decide how it was that the k and the a were preserved in ekagros. — A trace of the labial spirant is to be seen in the doubling of the π in the poetical and Aeolic $\delta\pi\pi\omega s$, $\delta\pi\pi\sigma\tau\epsilon$, etc., where the $\pi\pi$ has arisen by assimilation from πF and this from κF , and consequently corresponds completely to the ππ in ιππος discussed above. - In many languages the indefinite use gives rise to the general meaning 'all,' 'every,' which is to be seen e.g. in the Lith. kà-s by the side of the interrogative meaning, and which is introduced in the Italian languages by the addition of -que (cp. No. 647) which also belongs here, Osc. -pid, Umbr. -pe, -pei (uterque, quis-que), though in quoti-die, and quot-annis we find the same meaning without such an addition. Hence we may with certainty

follow Schmidt ('De pron. Graeco et Latino' p. 61) and Pott W. i. 828 in connecting the rt. παντ (n. πα-s) which, formed with the suffix -vant, is to be referred to a presumable *kā-vant 'how much?' 'how great?' analogous to the Skt. tά-vant, 'so much,' 'so great.' (Zd. cvañt, Lat. quant-u-s, Umbr. pant-a; Bopp 'Vgl. Gr.' ii. 229). It cannot be urged against this view that the Ionians did not, as we might expect, say *κα-s nor the other Greeks *έ-παστο-s, as the dialects show an unmistakeable variation in the treatment of these sounds. The adv. πάμ-παν is most likely nothing but the reduplicated neuter; πάν-ν seems to be a compound—perhaps the ν is the same ν that is added in Skt. to different pronouns (e. g. kim-ν 'what indeed?') and has left other traces in other languages (Sonne 'Ztschr.' xii. 269).

632. Root cen say, Hom. ἔ-σπ-ε-τε say, ἔνι-σπ-ε-ν said, ἔνν-επ-ε, ἐνί-σπε-s, ἐνί-σπε, ἐν-έπ-ω say, tell (fut. ἐνι-σπή-σω).

OLat. in-sec-e = ἔννεπε, insectiones = narrationes, insexit dixerit (Paul. Ep. 111).

OHG. seg-jan, sag-ê-n say.

Lith. sak-aú, inf. sak-ý-ti say, į-sak-aú tell to, pá-sak-a narration. — ChSl. sok-ŭ κατήγορος, soč-iti indicare.

OCymr. hep inquit; OIr. insce sermo (for in-sece); aithese, Cymr. atep responsum (for ati-sec); OIr. cose, Cymr. cosp set to rights, punish (for con-sec); OIr. in-cho-sig significat.

Ebel 'Ztschr.' ii. 47 (cp. 'Beitr.' ii. 165) has rightly separated the Greek words from elneiv, enos (No. 620) which have an initial f. This root has nothing whatever to do either with the rt. Feπ, to which belongs έν-οπή, and which has quite a distinct meaning, or with ένίσσω (No. 623). ε-σπ-ε-τε is either a reduplicated aor. for σε-σπ-ε-τε (cp. έ-σπ-ό-μην No. 621) or else has come from εν-σπε-τε (Van. 995). ένίσπε-s is formed like σχ-έ-s rt. σεχ (No. 169), ἐνί-σπ-ε on the analogy of the thematic conjugation. ἔννεπε comes by progressive assimilation from $\dot{\epsilon}\nu$ - $\sigma\epsilon\pi\epsilon$ like the Aeol. $\ddot{\epsilon}$ - $\tau\epsilon\nu$ - $\nu\alpha=\dot{\epsilon}$ - $\tau\epsilon\nu$ - $\sigma\alpha$, the fut. $\dot{\epsilon}\nu$ - $\dot{\epsilon}\psi\omega$ like $\ddot{\epsilon}\sigma\theta\epsilon$ be' with softening of e to . - I find traces of the k in the Homeric ίσκεν which χ 31 most unmistakeably means 'said' (Död. 'Gl.' 287), and which I take to be an imperf. like lo-x-e-v with i as a reduplication (σι-σεκ-ε-ν), and also in θέ-σκε-λο-s = θέs-φα-το-s. — On the Italian 468 forms cp. Gellius xviii. 9, who quotes 'insecendo = dicendo' from Cato, and insece from Ennius and Livius Andronicus, and adduces insectiones, Plac. 'Gl.' insequis, 'narras, refers sed interdum pergis.'

The MSS. Plaut. 'Mil.' iv. 6, 5 (or 1220 R.) have secuta est = locuta est, but Sophus Bugge 'Tidskrift f. Philol.' 1866 p. 18 gives weighty reason for regarding it as an error. Corssen ('Ital. Sprachk.' 70) holds the spelling with the qu (also sequius, 'sermo' Loewe 'Prodr.' 420) to be mistaken, and to have originated in the idea that it was somehow connected with sequi. The Umbr. pru-sik-u-rent in the sense of 'declaraverint' is deduced by Aufr. and Kirchh. 'Umbr. Sprachdenkm.' ii. 331. (Cp. Bréal 'Tables Engubines' p. 248.)—To the forms with π πρόσ-εψι-s' προσαγόρευσις Hesych. certainly belongs, probably θέ-σπ-ι-s, θε-σπέ-σιο-s.—On the Keltic words cp. Windisch 'Beitr.' viii. 46, Stokes ibid. 347. OIr. saigid 'disputare' reminds us on the other hand of the Goth. sakan 'strive.'

633. Root τρεπ, τρέπ-ω (Ion. τράπ-ω) turn, τροπ-ή a turning round, τρόπ-ο-ς a turn, τρόπ-ι-ς keel, τρόπ-ηλι-ς bundle, τροπ-εῖο-ν a press, τραπ-έ-ω tread grapes, εὐ-τράπ-ελο-ς versatile, clever.

Lat. torqu-eo, tor(c)-mentu-m, torc-ulu-m, torc-ular press, torques chain, bolt.

Pott W. iii. 155. Jac. Grimm 'Gesch.' 403 compares also the Goth. threih-an θλίβεω, OHG. dra-j-an, which Pott W. iii. 164 puts under another root, Benf. i. 673, Van. 297. — The k is preserved in ä-τρακ-το-s' spindle' - where à probably comes from àμφ as in ä-βολο-s 'cloak' - of the same meaning as the Skt. tark-ú-s, and probably in ά-τρεκ-ής, ά-τρεκ-έ-ως (on the analogy of which Lycophron formed νητρεκ-έ-ωs), for which the Etymologica give a Doric by-form ατρεχής. With Döderlein 'Gl.' 655, 2467 I take the word to mean 'not turned' ('unverdreht'), 'unconquered.' Cp. Walter 'Ztschr.' vii. 378. We may perhaps add εὐ-τρόσσ-ε-σθαι (perhaps better εὖ τρόσσεσθαι)· ἐπιστρέφεσθαι Πάφιοι Hesych. The assumable *τροσσω = τροκίω reminds us forcibly of the Lat. torqueo. - "A-τροπο-s (also 'Αταρπώ) is commonly and probably rightly explained to be 'not to be turned aside.' - That τερπι-κέραυνο-s (cp. τερπώμεθα τρεπώμεθα Hesych.) meant not 'delighting in lightning,' but 'fulmina torquens' seems to me to have been proved by Gust. Meyer 'Stud.' vii. 181. - We have perhaps a metaphysical application of our root in the Skt. tark-a-s 'conjecture,' 'reflection,' in reference to which Schweizer 'Ztschr.' xii. 302 recalls the Lat. 'volvere animo.' Again, 'turning' and 'twisting' is the way of the versutus, the knave and cheat; Skt. trk-van 'thief,' with which Schweizer aptly compares the Lat. trīc-ae, trīcāri, intrīcare, extrīcare, in which the physical meaning 'windings' is still evident ('extricata densis cerva plagis' Hor. 'Carm.' iii. 5. 31). It may be doubted whether the Homeric epithet for the sly Phoenician merchants. τρῶκται, means 'gnawers,' 'sweet-tooths' (cp. τρώξ 'worm'), as the ancients presume, or belongs here. As far as sound goes the first interpretation is preferable.— Seeing that it is extremely doubtful whether a p ever took the place of k in Skt., I can now question whether Grassmann 'Ztschr.' ix. 20 is right in connecting some Skt. forms in p. The rt. trap means 'to be ashamed,' trap-as 'confusion,' 'shame.' trp-rά-s 'restless,' 'hasty,' 'anxious' and the synonymous trp-ala-s recall both the Gk. εὐ-τράπ-ελο-s which can hardly be separated from τρέπω and still more the Lat. trep-idu-s. The Lat. p for an old k (as 469 in lup-us, Ep-ona(?), sap-io) is established by trep-i-t 'vertit' (Paul. 'Ep.' 367), cp. Corssen 'Nachtr.' 72, 'i². 117, while trapetum and trapes are borrowed from the Greek.—The OIr. torc in muintorc, Cymr. torch 'torques' (Z². 791, 155) is set down by Ebel 'Beitr.' ii. 154 as borrowed from the Latin.

To these examples of the change of k into p, which appear to me to be certain, may here be added a few stems in the case of which it can only be said that the change is probable. It has long been established (Bopp 'Gl.' etc.) that the Skt. and Zd. ap (fem.), n. pl. ap-as instr. pl. ad-bhis 'water' is not to be separated from the Lat. aqua, the Goth. ahv-a ποταμός, OHG. aha and awa, OPruss. ape, Lith. upe, 'river' (Nesselman 'Deutsch-Preuss. Vocabularium' Königsb. 1868 p. 22). But the Latin and Teutonic forms point to an original k, which we may safely assume for the Indo-Germanic period. In Greek we may expect to find it represented by π , as also in all the Italian dialects except Latin. As we saw at p. 119, we may without violence refer to a stem $\bar{a}p$ with the meaning 'water' the proper name Μεσσ-άπ-ιοι whose country in lower Italy does, in fact, lie just between two 'waters' (cp. Μεσο-ποταμία, Μεθ-ύδριον, Inter-amna), a fact which led Pott ii1. 43 to the expression of the like opinion. It is true that at first sight this meaning does not equally suit the Locrian Μεσσάπιοι mentioned Thucyd. iii. 101, nor the Μεσσάπιον όρος in Boeotia and Thrace, nor the Laconian Μεσσαπέαι. Also the name of the river 'Απι-δανό-ς (cp. 'Απιδών) may be easily explained to mean 'the water-distributer' (rt. 80, da No. 270). (Cp. Skt. áb-da-s 'cloud,' properly 'water-giver.') Pott (ut sup.) is right again in comparing the old name of the Peloponnesus $\gamma \hat{\eta}' A \pi i \alpha$ with a long $\bar{\alpha}$ (Aesch. 'Suppl.' 790) with the later Slavonic name Morea from the Slav. more =mare, and so 'Water-land.' And the attempt has been made to derive even the much-discussed Homeric έξ ἀπίης γαίης (whose derivation from ἀπό, Buttm. 'Lexil.' i. 67, Pott i2. 446, has its difficulties) from the stem ap with a short vowel. It would then contain the idea 'from the land over the sea,' 'over the water,' and this would suit $\tau \eta \lambda \delta \theta \epsilon \nu$, with which έξ ἀπίης γαίης is connected, and the expression would be a natural one. Of the Italians probably the Appuli and the old Volscian town Apiola (Strabo v. p. 231), belong here, but hardly the Lat. amnis (cp. the OIr. abann 'river'), for in Latin we ought to find the k. Froehde 'Ztschr.' xxii. 256 adds ήπειρο-s, which he even compares with the MHG. uover in spite of the fact that elsewhere an h occurs in Teutonic. Sanskrit is the language which presents the most difficulty. For, as we have seen, labialism cannot be established for Sanskrit. But perhaps Fick i3. 473, 489, has hit on the 470 right solution in assigning the Lat. aqua (Goth. ahva) and the Skt. ap with the corresponding Persian and Lithuanian words to two distinct roots. Nothing but very uncertain conjectures can be made as to the original meaning of both of them. The word can hardly have anything to do with the rt. ak 'be quick,' with which Joh. Schmidt has connected aqua. It must be left equally doubtful whether the Gk. άπ belongs to aqua or to the Skt. ap.

If we compare $\beta ov - \kappa \delta \lambda o - s$ with $\alpha i - \pi \delta \lambda o - s$ (No. 595), $i\pi \pi o - \pi \delta \lambda o - s$, we shall be very much inclined to assume in this case the same change of k to π . If we add $\alpha i \gamma_i - \kappa o \rho - \epsilon i s$ (Lobeck 'Phryn.' 652), we get the older ρ in the place of the λ , and are brought to an Indo-Germ. rt. kar. A trace of the guttural is to be seen also in the Elic $\theta \epsilon \eta - \kappa \delta \lambda o - s$ (Hesych. $\theta \epsilon o - \kappa \delta \lambda o - s$, $\kappa o \lambda \epsilon i v$ ' $\epsilon \lambda - \theta \epsilon i v$) by the side of $\theta \epsilon \eta - \pi o \lambda \epsilon - \omega$. I think we may with Benfey 'Ztschr.' viii. 90 and Froehde 'Beiträge zur Lat. Etymologie' p. xiii. identify this rt. kar with the Skt. kar 'stir oneself,' 'go,' 'walk.' But it is impossible to separate the above-mentioned compounds from the rt. $\pi \epsilon \lambda$ which occurs in $\pi \epsilon \lambda - \omega$, $\pi \epsilon \lambda - o - \mu a \iota$, $\alpha \mu \phi \ell - \pi o \lambda o - s$, $\pi o \lambda - \epsilon \iota \omega$, $\pi \omega \lambda \epsilon - \omega$ and $\pi \omega \lambda \epsilon - o - \mu a \iota$. The fundamental notion is 'turn,' then 'revolve,' 'turn oneself about,' whence arises the more indefinite meaning of traversing in the sense of 'versari,' and whence we

easily arrive at the transitive use as applied to the driving of cattle. Most of these meanings are attached also to the Skt. Kar: qō-Kar-a-s 'trodden by oxen,' then 'trodden' generally, is the passive to βου-κόλ-ο-ς, the active to it is Kāraka-s 'driver,' 'keeper.' Kāra-s 'going,' movement,' also used of the constellations, may be compared to πόλο-s. The most colourless meaning of $\pi \hat{\epsilon} \lambda \hat{\epsilon} i \nu$, $\pi \hat{\epsilon} \lambda \hat{\epsilon} \sigma \theta \alpha i$, which comes out already in Homer, and which means hardly anything more than 'to be in a certain state," to be, is likewise established for the Skt. Kar in the 'Pet. Dict.' Now as the same scholars have seen, the Lat. col-e-re agrees with this. As a link between the rt. col and πελ we have in-quil-īnu-s and Ex-quil-iae (Esquiliae) acc. to Corssen ii2. 1024, which words belong to in-col-a, colonu-s and, as Froehde justly remarks, point to an older kval or kvel. On the relation of qu to c in these and other words, Corssen ('Ital. Sprachk.' 72 ff.) has made valuable comparisons, but they do not prove that qu in Latin is always the result of a modification possible for every c. In its application to the ground col-e-re finds its analogy in πόλο-s, which acc. to Hesych. is also ή μεταβεβλημένη γη είς κατασποράν, and also in the use of πολεύειν, αναπολεύειν, θαλαμηπόλος, θεο-πόλος. The notion 'traverse' will serve to connect many of these uses with the primary meaning and with each other. For agrum colere we ought to compare also the Zd. car-ana (m.) 'field.' We 471 have here then to do, it seems, with a word of primitive culture, and it is significant, that it still preserves in the East and in Greece its pastoral application, while in Italy it receives the application to agriculture and religion, and in Greece that also to the trade which everywhere accompanies travel. I know of no corresponding words in the northern languages except the ON. fal-r, OHG. fal-i 'for sale' (Germ. feil), which agree with $\pi\omega\lambda\hat{\epsilon}\hat{\imath}\nu$, but are explained quite differently by Fick i3. 671. — The different treatment of Ascoli 'Ztschr.' xii. 432 ff. and Corssen's remark (i2. 428) do not convince me. I cannot be sure whether the adjectives εύ-κολο-ς 'easy,' δύσ-κολο-ς 'hard to please,' or 'to get round,' which do not occur before Attic times, and which may easily be linked with these in meaning, belong here, and so to the words with the k, or not. Froehde's attempt (ut sup.) to identify the Lat. que-o (rt. qui) with a rt. π_l deduced from $\nu \hat{\eta} - \pi_l \cdot o - s$, will not find many supporters. Rather do we get from $\nu \eta - \pi \hat{\nu} - \tau_l \cdot o - s$ a rt. $\pi \nu$, and then there is a wide gulf between the meanings of que-o and $\nu \hat{\eta} - \pi_l \cdot o - s$. I cannot accept the latest theory about these words which is expounded by Bezzenberger and Fick ('Beitr.' ii. 272, 341) who also sever entirely the Homeric $\pi_l \nu \nu \tau \hat{\sigma} - s$ from the absolutely synonymous $\pi \epsilon \pi \nu \nu \mu \hat{\epsilon} \nu o - s$ and connect it with the Skt. rt. ki 'perceive' (No. 649). On the development of the ι by anaptyxis cp. below p. 731. — Cp. Pott W. i. 459 and on queo Ascoli 'Lautl.' 55.

Anyone who has read this discussion of Labialism will perceive at once that in the few examples that are adduced of a dialectic variation between κ and π — particularly the Thessal. $K\iota\dot{\epsilon}\rho\iota\sigma\nu = \Pi\iota\dot{\epsilon}\rho\iota\sigma\nu$ (O. Müller 'Dorians' ii. 521), $\kappa\dot{\epsilon}\rho\nu\sigma\psi = \pi\dot{\epsilon}\rho\nu\sigma\psi$ (Ahrens 'Aeol.' 219), $K\dot{\epsilon}\delta\nu\alpha = \Pi\dot{\epsilon}\delta\nu\alpha$ (Steph. Byz.) — the κ has a presumptive priority. For the first word the form $Ko\nu\dot{\epsilon}\rho\iota\sigma$ is remarkable, an epithet under which Poseidon was worshipped in the neighbourhood of $\Pi\iota\dot{\epsilon}\rho\iota\sigma\nu$ ('Journal des Savants' 1829 p. 515). Unless we have here one of chance's freaks, we might conjecture that this $Ko\nu\dot{\epsilon}\rho\iota\sigma$ (for * $Ko\nu\iota\alpha\rho\iota\sigma$) contains the link between κ and π , i. e. a Greek qu.

We may here mention also πύανο-ς by the side of the usual κύαμο-ς 'bean;' the two forms are discussed by Kuhn 'Ztschr.' xi. 309, and, with a very different result, by Ahrens 'Rhein. Mus.' xvii. 343. That we have here π as the equivalent of κ is completely proved by the fact that the same month that was called Πυανεψιών by the Attics went by the name Κυανοψιών in Samos. Cp. the inscription discussed by Kirchhoff in the 'Monatsber, der Berl. Akad.' 1859 p. 739 ff. The Samian κύανος was related to πύανος then as the Ion. κοῦ, κῶς, κότε to 472 the Att. ποῦ, πῶς, πότε, and consequently was the older form, πύανος the later. This refutes Ahrens' conjecture that the word is to be referred to the Skt. push 'nourish.' For then the k would be inexplicable. Why we should reject the well authenticated statement that πύανος is identical with κύαμος 'bean,' I do not understand. This is not inconsistent with the fact that according to other accounts πύανος denoted a kind of broth. The festival of the Tvavévia however was called Πανόψια or Πανοψία outside Attica, as Harpocration, Suidas,

and Photius s. v. show by a quotation from the orator Lyeurgus. According to the latter and Ahrens the name meant a 'general cooking,' but may it not have been a convenient shortening of $\Pi \nu a \nu \delta \psi \iota a$, in which case we should have established the series $K \nu a$, $\Pi \nu a$, Πa ?

An Aeolian π by the side of an Att. τ for an original k occurs in πέσσυρες, πίσυρες (No. 648), and in πέμπε (No. 629). To this we may now add the Cyprian πείσει 'he will repay' ('Table of Idalion' Il. 12 and 25), which is thus completely synonymous with the ἀποτεισεῖ (tabb. Heracl.), the Homeric άποτίσει (Deecke and Siegismund 'Stud.' vii. 252), and consequently belongs to No. 649. But the ordinary Greek ποινή, which Fick i3. 533 compares with the Zd. kaena 'revenge.' 'avenger,' would, if it belongs here, prove that the labial extended still further. Since an initial p in Latin hardly ever arose from k the identification of ποινή with kaêna compels us to regard the Lat. poena as a word borrowed from the Greek. The old derivation of both words from the rt. pu is defended by Corssen 'Ital. Sprachk.' 140, though he leaves the important Cyprian form out of account. The Homeric $\alpha - \pi o \iota \nu \alpha$ 'ransom-money' (probably for $\alpha \pi (o) - \pi o \iota - \nu \alpha$) shows still more clearly the fundamental notion of paying.

b.

A Greek β corresponds in the following cases to an Indo-Germanic g, which in Sanskrit, Lithuanian, and Slavonic has remained unaltered, or has changed into the corresponding palatal, while in Teutonic the g is shifted to k. The Italian and Keltic languages too now and then show the labial.

634. Root βα go. Aor. ἔ-βη-ν, pres. part. βι-βά-s (Hom.), iterative βά-σκ-ϵ, vbl. adj. βα-τό-s, pr. βαίν-ω.— βῆ-μα step, βω-μό-s steps, altar, βη-λό-s threshold, raised place, βέ-βη-λο-s trodden, profane, βά-σι-s a going, a pedestal, βά-θ-ρο-ν step, βά-δ-ο-s a going, βα-δ-ίζ-ω walk along, βέ-βα-ιο-s firm, βι-βά-ζ-ω make to come, bring, βι-βάσθ-ων striding along.

Skt. rt. gā go (aor. á-gā-m, pr. ģí-gā-mi), gá-ti-s a

going, ga-m go (pr. gám-ā-mi, gá-kkh-ā-mi), ga-473 tá-s gone, gam-áj-ā-mi make to come, bring up. — Zd. rt. gā and gam go, jam and gaêth come.

Lat. bē-t-ĕ-re (ad-bī-t-e-re, im-bī-t-e-re, re-bī-t-e-re), ar-bĭ-ter, ven-i-o, Umbr. ben-ust venerit, Osc. kúmbened convēnit.

Goth. qim-an, OHG. quëm-an, kom-an come; Goth. qum-s arrival, OHG. bi-quām-i (Germ. bequem) comfortable.

Bopp 'Gl.,' Pott W. i. 16 ff., Benf. ii. 58, Fick is. 555. - The rt. ga then changed first to qua, then to ba, as did the nasalized ga-m to gvam-regularly represented in Goth. by gam-and then to Bav (βαίν-ω = βαν-j-ω), Umbr. Osc. ben (Aufr. and Kirchh. i. 89), to which may be added the Osc. ce-bn-ust = 'huc venerit' ('Stud.'ii. 437), where it is to be noticed that the Graeco-Italians agree in having an n where Skt. and Teuton. have m. — The reduplicated present-form βι-βά-s corresponds to the Skt. ģi-gā-mi just as the iterative βά-σκ-ε corresponds to the Skt. gá-kkh-ā-mi, i.e. ga-sk-ā-mi (cp. 'Gk. Verb' p. 192). — Among the Greek formations from the original root we may mention βω-μό-s which is proved to be related by the older meaning, preserved in Homer (especially 7 100), in which it approaches nearly to βημα and βάθρον, as also by the diminutive βωμίς 'step' (Herod. ii. 125). The root is expanded in various ways by added consonants, especially, beside the above-mentioned nasal, by $d(\beta d-\delta-o-s)$, by t in the Lat. be-t-ere (also written baetere and bitere), which is found uncompounded in Pacuvius, Pomponius, and Plautus (Mercator 464 R.), as well as in several compounds (Brix on Plaut. 'Capt.' 377) which have the regular ī. The Lat. ar-bī-ter on the other hand comes from the simple rt. ba for ga, and its t clearly belongs, like that of βα-τήρ (Hesych.) and ἐπιβά-τη-s, to the suffix; on ar=ad see Corssen 'Ausspr.' i². 239. No doubt too fun-ambu-lus, ambu-la-re are to be explained by a form amb(i)-bu-lu-s, so that here the root-syllable is represented by bu. -Since in βά-δ-ο-s and βα-δ-ίζω we have a clear instance of an amplificatory d, some scholars have been tempted to connect with them the Lat. văd-u-m 'ford,' and vā-d-e-re. But since the Lat. d can just as well be the representative of a dh = Gk. θ , and since moreover $v\tilde{a}$ -d-u-mcorresponds in sound to the Skt. gadh-á-m of precisely equivalent meaning, which in the 'Pet. Dict.' is derived from the rt. gadh 'stand fast,' 'get a firm footing,' it will be better to regard it as one of the numerous dh expansions of the rt. ga. This is also Corssen's opinion ('Beitr.' 59). — The meaning of βέβα-ιο-s is noticeable: it connects itself with the perfect-stem \$\epsilon \beta a ' to have stepped out,' ' to stand firm:'

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also that of βέβη-λο-s, which, though with a different meaning, is a sort of passive to βέβαιος. — We are forbidden to compare the Goth. gagg-an, OS. gâ-n 'go' by the absence of the regular representative mute (Grassmann 'Ztschr.' xii. 132), and also the Lith. žengiù 'stride' which we can hardly separate from it. On both cp. Fick i³. 576.

635. βαθύ-s deep, βάθ-os, βένθ-os, βυθ-ό-s, βυσσό-s depth, ἄ-βυσσο-s bottomless, βῆσσα deep valley, gorge. Skt. gāh dip oneself, bathe, gāh-ά-s (adj.) bathing, (subst.) depth, interior, gabh-īrá-s deep, gámbh-an depth, gáh-ana-s deep, gáh-ana-m depth, precipice, gabh-á-s or gadh-á-s fissure.

Benf. ii. 66. — It is no doubt right to connect βάπ-τω 'dip,' rt. βαφ, (βαφή, βάμμα, βαφεύς, perhaps the name of the river Βαφύρας), directly with $\beta a\theta$. Here as elsewhere we have an early fluctuation of the aspirates. The counterpart of βαθ, to which belong also βησσα and Baσσaι, is to be compared with a Skt. gadh which is now recognizable only in gadh-ά-s (Schweizer 'Ztschr.' iv. 298), while βαφ may be compared directly with gabh in gabh-īrá-s, gámbh-an, but in the Skt. gah, gāh nothing is left but the pure aspirate breath. Otherwise Pott W. iii. 781. — There is considerable difficulty in βόθ-ρ-ος 'pit,' which is near akin to βαθ-ύ-s in meaning, but also suggests fod-i-o by its sound. But it would be difficult to derive the rt. fod from gadh. On the other hand we meet also with a possible connexion in the Lith. bad-au, ChSl. boda, 'to prick.' - Fick is. 688 separates these words and βαθύ-s from the Skt. gadh, gabh, and regards bhadh as the root: it is only βάπτω that he takes to be related to gabh. On the forms with v see below p. 716. - The only Keltic word which Stokes connects ('Beitr.' viii. 302, cp. 'Corm. Gl. Transl.' p. 18) is the OIr. bádud, Cymr. boddi 'mergi.' The OIr. baithis 'baptism,' baitsim 'I baptize,' Cymr. bedydd baptism,' cannot be related as Ebel (Beitr.' iv. 171) thinks, but probably are derived from baptisma.

636. βάλανο-s acorn, peg, plug. — Lat. glan(d)-s. — ChSl. želądt, Lith. gilë acorn.

Pott i¹. 87, Benf. ii. 65, Schleicher 'Ksl.' 111, otherwise Miklos. Lex.' 194, Fick i³. 569. — Three families of language in which the meaning of the word is absolutely identical point to an initial g. — Cp. No. 637. — βάλ-ανο-s belongs to the stem of τ-βαλ-ο-ν, glan(d)-s to βλή-μενο-s. It is not easy to say what the suffix is in the Latin and Slavonic words.

637. Root βαλ (βελ, βολ) βάλλ-ω throw, intr. fall; βλήμενο-s, βλη-τό-s hit, βλῆ-μα, βέλ-οs, βέλ-ε-μνο-ν missile, $\beta \epsilon \lambda - \delta \nu \eta$ point, needle, $\beta o \lambda - \dot{\eta}$, $\beta \delta \lambda - o - s$ a throw, $\beta o \lambda - \dot{\iota}(\delta) - s$ arrow, sounding-lead. — Skt. rt. gal ($g\acute{a}l - \bar{a} - mi$) trickle down, fall away, vi - gal pour down (intr.), tumble down, gal - ana - s trickling, running (of liquid), $\acute{g}al - a - m$ water (? cp. note on No. 123). — OHG. quillu (preterite qual) scaturio, $qu\ddot{e}ll\acute{a}$ fons.

Bopp 'Gl.,' Benf. ii. 291, Grassmann 'Ztschr.' ix. 28, Pott (doubtfully) W. i. 2, 443. - Brugman 'Morpholog. Unters.' i. 41, connects the Skt. qlā 'feel oneself exhausted,' 'die away,' so that qal: qlā:: $\beta a\lambda$: $\beta \lambda \eta$, explaining the $\bar{a}(\eta)$ in a new way—i.e. as being an expansion of the root. - Notwithstanding the remarkable difference of meaning I think the above comparison is warranted. For on the one hand, as regards the initial, we have to consider the Arcadian by-form ζέλλω, and also Hesychius's εζέλεν εβαλέν (Ahrens 'Aeol.' 351), and on the inscription from Tegea edited by Bergk (Halle 1860) and Ad. Michaelis (Jahn's 'Jahrb.' 83, 585) we find ἐσ-δέλλω=ἐκ-βάλλω. And this same (confronts a & in the other dialects in two words (Nos. 638, 640), for which an original q is clearly proved. For this see below 475 p. 491. On the other hand we have to consider, as regards the meaning, the manifold application of the rt. βαλ to water especially in εls άλα βάλλων (Λ 722), εἰσβάλλειν 'discharge itself' (of a river), ἐμβολή 'mouth of a river,' ἐκβάλλειν 'well forth,' ὕδωρ συμβάλλειν 'confluere,' δάκρυα βάλλειν 'shed tears' (8 114, 198), and the remarkable intransitive use in the proverbial expressions βάλλ' ές κόρακας, είς μακαρίαν and in βαλοῦσα ψήφος (Aeschyl. 'Eumen.' 751), and again in numerous compounds, among which συμβάλλειν 'meet,' 'fit,' along with σύμβολον deserves special notice. We can easily get from the meaning 'fall,' 'glide,' to that of 'slip away,' 'let slip,' 'let fly,' an arrow, etc. (cp. $\log \chi(F)$ -apa No. 203), and this application of the root seems to have been the source of its extended use. $\beta \hat{\epsilon} \lambda - \epsilon - \mu \nu o - \nu$ is a participial form like τέρ-ε-μνο-ς, μέδ-ι-μνο-ς, τέρ-α-μνο-ς. βάλανος too (No. 636) belongs here as 'something that has fallen away.' The connexion with the Lat. volare conjectured by Leo Meyer 'Vgl. Gr.' i. 37 has been acknowledged in several quarters. Schweizer 'Ztschr.' xii, 303 finds support for this comparison in the Skt. gar-út 'wing.' He and Hugo Weber ('Jahn's Jahrb.' 1863 p. 591) remind us of the relation of πέτ-ο-μαι to πί-πτ-ω (No. 214). But I find a considerable objection to this in the fact that vol-are can hardly be separated from velox and vēlites, which have 'swiftness' as their characteristic meaning, and this meaning is quite foreign to the words collected here (cp. Corssen Beitr.' 59, is. 460).

638. βαρύ-s heavy, βάρ-ος, βαρύ-τη(τ)-s weight, βαρέ-ω, ἐπιβαρέω (Arcad. ἐπιζαρέω) burden, weigh down.

Skt. gurú-s (for garu-s, comp. gár-ījas) heavy, gar-i-mán, guru-tā weight, worth.

Lat. grav-i-s, gravi-tā(t)-s, grav-ēdo, grav-ā-re, gravidu-s.

Goth. kaur-s βαρύ-s, kaur-itha, kaurein-s βάροs, kaur-jan βαρεῖν, ἐπιβαρεῖν.

Bopp 'Gl.,' Pott W. iii. 714, Benfey ii. 291. - The agreement in meaning is complete; quru-s is according to the 'Pet. Dict.' the opposite of laghú-s (No. 168) just as gravis is of levis. As regards the sound, garu must be regarded as the stem, whence was developed gvaru; the Arcadian form ἐπι-ζαρέω, which occurs also in Euripides, points to another softening, that of q to qj (cp. No. 637). Lat. grav-i-s for garu-i-s, cp. Skt. tanú, Lat. tenu-i-s (No. 230). - Perhaps it is right to connect also the Lat. brū-t-us ('brutum antiqui gravem dicebant' Paul. 'Epit.' p. 31), in which case Latin as well would show a b in this form. Cp. Lett. grût-s in Pott ut supra.—I have now discussed yepas and the words related to it under No. 129 b. - The Gk. words in β must have some affinity with βρί (ἐπὶ τοῦ μεγάλου Hesych.), βρι-αρό-s, βρίθ-ω, βρίθ-ύ-s, where the i may be compared with that of τρί-β-ω by the side of the rt. τερ: also with βρίζειν 'nod,' 'fall asleep' (cp. οἴνω βεβαρηότες). — The objections of Heinr. Schmidt 'Synon.' i. 465 do not convince me: cp. \$\Delta\$ 223. It is not necessary that the original meaning should show itself in all uses of the words. Joh. Schmidt 'Voc.' i. 124 connects βρίθω with βρενθ-ύ-ε-σθαι 'hold up the head,' 'plume oneself.' But there is no notion of heaviness in the latter word, though it is unmistakeable in the former; e.g. at II. 384, is 8' 476 ύπὸ λαίλαπι πασα κελαινή βέβριθε χθών, cp. Plato 'Phaedr.' 247 βρίθει ὁ τῆς κάκης ΐππος μετέχων, ἐπὶ τὴν γῆν ρέπων καὶ βαρύνων. The same objection stands in the way of the combination made by Fröhde in Bezzenb. 'Beitr.' i. 250. Cp. 'Gk. Verb' p. 501. The Goth. au by epenthesis (Delbrück 'Ztschr. f. d. Philol.' i. 148). — In a note to Goid². p. 91 Stokes connects the OIr. goire 'pietas,' goiriu 'magis pius' (Z2. 275), and on the other hand ('Beitr.' vii. 41) gur 'sorrowful.'

638 b. βασ-τάζειν lift, carry, βάσ-ταγμα burden. — Lat. ger-o (rt. ges), ges-tu-s, ges-tā-re, ges-tā-men, ger-ō(n) bearer. — Goth. kas cask, ON. kas-ta carry, throw, Eng. cas-t.

Fick i'. 569, Bugge 'Ztschr.' xix. 429, Van. i. 223, Zimmer 'Nominal suff. a' p. 71. — βαστάζεω is a frequentative like ges-tā-re.

The Lat. vas, probably for *gvas, bears to βaσ- the same relation as that of ven-io to βaίνω. Still it is hard to account for the s between the two vowels in vas-is, vas-a. It is probably related to the rt. βa (cp. the Zd. jah 'go,' 'come') in a causative sense.

639. βία force, strength, ἀντί-βιο-ς fighting against, ὑπέρβιο-ς overpowering, overbearing, βιά-ω, βιάζ-ο-μαι overcome, βία-ιο-ς forcible, violent.

Skt. $\acute{g}i$ $(\acute{g}\acute{a}j$ - \ddot{a} -mi) conquer, overcome, $\acute{g}j\ddot{a}$ trans. overpower, intrans. to be overwhelmed, subst. $\acute{g}j\ddot{a}$ (fem.) excessive power, extravagant pretensions, $\acute{g}j\acute{a}$ -jas (isolated comparative) superior, stronger, older. — Zd. ji overpower.

Pott W. i. 61, 558, P. W. iii. 154. — I doubt much whether this rt. gi, gvi has anything in common with the stem fi (fl-s) discussed at No. 592. — super-b-us closely resembles $imip-\beta io$ -s, and since j in the middle of a Latin word does now and then disappear after a b (dat. and abl. -bus = Skt. -bhjas), it is easy to bring the two words together. But I now see I must allow that Schweizer is right, in expressing doubts as to this comparison 'Ztschr.' xii. 303. The second element of the Lat. word might be the rt. ba (No. 634), or even the rt. fu (cp. also Corssen 'Beitr.' 61). — Pott connects also βi -vii 'ravish,' reminding us of the Skt. \acute{gi} - $n\acute{a}$ -mi the pres. to \acute{gj} \ddot{a} , and Fick i³. 570 the Lat. vie-sce-re 'grow old,' as an intransitive to $\beta i \ddot{a}v$. Cp. Brugman 'Morpholog. Unters.' i. 6, where he is probably right in taking the rt. gi- \ddot{a} to be an expansion of gi.

640. βi -o-s, βi -o-to-s, βi -o-t η life, way of life, livelihood, βi 6- ω (aor. $\beta i\hat{\omega}$ - $\nu \alpha i$, Ep. fut. $\beta \epsilon i$ -o- $\mu \alpha i$, $\beta \epsilon$ -o- $\mu \alpha i$) live.

Skt. $\hat{g\bar{v}v}$ ($\hat{g\bar{t}v}$ - \bar{a} -mi) live, $\hat{g\bar{v}v}$ - \hat{a} -s living, $\hat{g\bar{v}v}$ - \hat{a} -tha-s, $\hat{g\bar{v}v}$ -i- $t\hat{a}$ -m life, $\hat{g\bar{v}v}$ - \hat{a} -tu (fem.) life, means of life. — \hat{ginv} (\hat{ginv} - \bar{a} -mi) stir (intrans.), revive (trans.). — Zd. $\hat{j}\hat{v}$ and $\hat{j}\hat{v}v$ live, $\hat{j}\hat{v}v$ -ya living.

Lat. vīv-o, vīv-u-s, vīt-a, vic-tu-s.

Goth. qiu-s living, ga-qiunan ἀναζῆν, OHG. quëk, MHG. quicken revive.—ON. kvikv-endi animal.

ChSl. živ-ą vivo, živ-ŭ vivus, živ-o-tŭ vita. — Lith. 477 gyv-en-ù live, gýv-a-s living, gyv-a-td life, livelihood.

OIr. biu, béo vivus, beothu, bethu, gen. bethad (st. *bivatat-) vita, biad, gen. biith (st. *bivata-)

victus; Cymr. byw vivus, bywyt vita, buyt, later bwyd food.

Bopp 'Gl.,' Pott W. i. 746, Benf. i. 685, Schleicher 'Ksl.' 135, Corssen i². 389, Ebel 'Beitr.' ii. 160, Stokes 'Ir. Gl.' 113. — The original initial g became gv, which explains the Gk. β and the Lat. v. An attempt has been made to separate βίο-ς, βίο-το-ς from ģīv and to refer it to the shorter rt. gi (Grassmann 'Ztschr.' ix. 27). But the complete identity of formation between βί-ο-το-ς, the Skt. ģīv-ά-tha-s, and the Lith. gyv-a-tà, and the difficulty of explaining the o if there was no consonant after the ι, make it far more probable to my mind that we ought to assume for Greek a stem βιξ of which the ι, probably long at first, was naturally shortened before the vowel. βείο-μαι ('Gk. Verb' p. 468) or βίο-μαι must be a present-form of the lengthening class, and so for *βειξο-μαι. ζάω is discussed on p. 491, and the guttural that shows itself in vixi, victus on p. 597. — Otherwise Max Müller 'Ztschr.' xv. 217, against whom see Pott W. i. 756.

641. βιό-s bow. — Skt. ýjā, Zd. jya (f.) bowstring.

Bopp 'Gl.,' Pott i¹. 205, 'Pet. Dict.,' Fick i³. 570. — Perhaps the Lith. gijē, 'thread' in weaving, 'mesh,' 'noose' is related. Cp. νεῦρον, νευρά No. 434. — βίος is clearly distinguished from the νευρά at Δ 125, and has accordingly shifted its meaning. — Otherwise Max Müller 'Ztschr.' xv. 216.

642. βο-ή call, cry, βοά-ω call out.

Skt. rt. gu (reduplic. $g\bar{o}$ -gu) make to sound, proclaim — (intensive 'shout'), $g\bar{a}u$ -s speech, the goddess of speech.

Lat. bo-ĕ-re, bov-ā-re, re-bo-āre; bov-ī-n-āri abuse. ChSl. gov-orŭ θόρυβος, govor-i-ti θορυβεῖν, θρυλλεῖν.

OIr. guth vox (st. *gutu-), gute, gutte vocalis (for guthide).

Aufrecht 'Ztschr.' i. 190, Miklosich 'Lex.' 133, Corssen 'Beitr.' 63, Pott W. i. 738. — As elsewhere the Lat. words agree in their initial with the Gk. ones. In meaning clamore bovantes in Ennius ('Ann.' 571 Vahlen) comes nearest to the Gk. βοῦν, whose ο is shortened from ορ as in βορ-ός = bὄν-is. — bov-īnā-tor according to Gellius xi, 7 tergiversator seems originally to have meant 'crier,' 'swaggerer,' cp. Döderlein 'Synonym. u. Etymol.' vi. 41, where as regards the formation of the word coquīnare is aptly compared. — Aufrecht conjectures that ε-γο-ο-ν, γό-ο-ς, γοά-ω 'wail,' 'howl,' are to be referred to the same rt. gu

and have kept the guttural; $\gamma \phi - \eta(\tau) - s$ 'wizard' perhaps belongs to these (cp. incantare, Fick i³. 572). With $\gamma \phi - o - s$ (for * $\gamma \phi F - o - s$) Bugge (Bezzenb. 'Beitr.' iii. 119) compares the Gothlandic kau-ma 'howl,' cp. OHG. chû-mo 'wail,' Fick iii³. 38. — Cp. No. 136.

643. Root βορ βι-βρώ-σκ-ω, βε-βρώ-θ-ω devour, βορ-ά meat, βορ-ό-s gluttonous, βρῶ-μα food, βρω-τήρ eater. Skt. rt. gar (gir-ά-mi gil-ά-mi) swallow, gara-s (adj.) at the end of compounds, swallowing, (subst.) drink.

Lat. -vor-u-s(carni-vŏru-s), vorā-x, vorā-re, de-vora-re, vorā-go.

Lith. gér-ti drink, ChSl. grŭ-lo throat, žrě-ti de-478 glutire.

OIr. gelid consumit, inf. gleith.

Pott W. ii. 627, 238, Bopp 'Gl.,' Fick is. 562. — Latin has here preserved only a v from the gv that was developed from g (cp. No. 126, Corssen i². 87). Still the old g appears in the form gur-g-e(t)-s, an instance of broken reduplication, which is to be compared with the Skt. gar-gar-a-s 'whirlpool,' also in gur-gul-io 'gullet.' Other words which have preserved the same g are yap-yap-ifew 'gargle,' Lith. gerkle 'gullet,' γαρ-γαρ-εών 'uvula,' γέρ-γερ-ο-ς' βρόγχος (Hes.), probably also the Lat. gul-a (cp. Skt. gala-s 'throat,' 'neck,' OHG. këla Delbrück 'Ztschr. f. d. Philol.' i. 149) along with glu-tī-re, in-gluv-ie-s (Joh. Schmidt 'Voc.' ii. 290). Pictet i. 412 adds the Lat. glis (gen. glir-is) 'dormouse,' comparing it with the Skt. gir-i-s, gir-ikā 'mouse.' $\beta \acute{a}\rho$ -a- $\theta \rho o$ - ν (Ahr. 'Aeol.' 232) is certainly formed from this root; it agrees with gurges in meaning 'chasm,' 'abyss,' and may moreover be compared with vorago, and its Aeolic form shows a & in the place of the \$\beta\$ of the other dialects as in No. 637 (Döderlein 'Gl.' 2439). — The rt. gras which in Skt. means 'swallow' (gras-ā-mi), may be regarded as an expansion of the rt. gar by s; it may be traced in the Gk. γρά-ω (Callim.) 'esse,' Hesych. γρά' φάγε Κύπριοι, and perhaps in the Lat. grā-men. — Probably too the OIr. bráge, gen. bráget 'neck' belongs to this root, and reminds us especially of the Lat. gurges, OHG. krage 'neck,' 'gullet.'

644. βοῦς οχ. — Skt. gāu-s (st. gav). — Lat. bō-s (st. bov).
— OHG. chuo cow. — ChSl. gov-ędo οχ. — OIr. bó, OCymr. buch (pl. biu) vacca.

Bopp 'Gl.,' Pott W. i. 739, Ebel 'Beitr.' ii. 156, Stokes 'Ir. Gl.' 583, according to Miklosich 'Radd.' 17 and Aufrecht 'Ztschr.' i. 190 from

the rt. gu (No. 642) in the meaning 'bellow.' — Perhaps the word $\gamma a \hat{i}os$ or $\gamma a \omega \dot{s}' \dot{o} \dot{\epsilon} \rho \gamma \dot{a} \tau \eta s$ $\beta o \hat{v}s$, in Hesych. and other lexicographers, contains the old guttural. In that case it exactly corresponds to the Skt. $gavaj \dot{a}-s$ 'bos gavaeus,' or to the adj. $gav-j \dot{a}-s$ 'belonging to cattle.' — On the other hand $\beta o \dot{v} \beta - a \lambda o - s$ (most likely for $\beta o v - f - a \lambda o - s$) comes near to the Skt. gav-a-las 'buffalo' (Pictet i. 332), though they differ in meaning, as $\beta o \dot{v} \beta a \lambda o - s$ and $\beta o v \beta a \lambda \dot{i}-s$ in older authors mean a kind of gazelle. The Lat. $b \bar{u}-bulu-s$ again is used adjectively.

645. βρέφ-os embryo, child, young. — Skt. gárbh-a-s embryo, child, young. Zd. garewa fetus. ChSl. źrèb-ę, źréb-ἴcˇί pullus.

Pott W. iii. 793, Benfey ii. 139, Schleicher 'Ksl.' 111. - The oftencompared (recently by Zimmer 'Nominal suffix a' 290) OHG. kalp, which is phonetically identical, is placed elsewhere by Jac. Grimm 'Gesch.' i. 33 (cp. Diefenbach 'Vgl. Wtb.' ii. 436) in consideration of the Gothic kalbô 'young cow' (δάμαλις). This only confirms us in the comparison of the Gk. Ind. and Slav. forms of the word, which however agree in stem only, not in the suffix. The root is clearly grabh (later grah) 'concipere' ('Pet. Dict.'), so that βρέφ-os is 'conceptum,' of animals (Ψ 266 βρέφος ημίονον κυέουσαν) and mankind. - The active to βρέφος is the Skt. gárbh-a-s, Zd. garewa in the meaning 'concipiens,' 479 'womb,' 'lap;' its correlative the Gk. δελφ-ύ-ς 'uterus' (cp. δολφό-ς' ή μήτρα Hesych.) with the softer liquid and dentalism, whence α-δελφειό-s (shortened to ἀδελφεός, ἀδελφός),=Skt. bhrātá sá-garbh-ja-s, i.e. 'frater couterinus' (Kuhn 'Ztschr.' ii. 129), and δελφίς (st. δελφ-ίν) 'dolphin,' 'belly-fish' (δελφίε μεγακήτης Φ 22), in Aeolic with a β βελφίς (Ahr. 41) which comes so much the nearer to βρέφος. Bühler 'Or. u. Occ.' ii. 337 raises against this derivation the objection that δελφύ-s does not mean 'venter' but merely 'uterus.' But such an enlargement of the meaning is very natural, and hence in Hesych. and the 'E. M.' the word has γαστήρ given among its meanings, and γαστήρ itself very often stands for μήτρα. The Skt. gárbha-s too has had its application extended, inasmuch as, according to the 'Pet. Dict.,' like alveus it means 'the bed of a river.' On the Gallic proper name Galba which, according to Suetonius ('Galba' 3) meant 'praepinguis,' which Fick and others place here, cp. Angermann 'Stud.' v. 392. To this may be added Δελφοί, Βελφοί, Boeot. (now attested from an inscription, 'Athenaeum' iii. p. 479), named no doubt from its position in a deep ravine. With respect to Bühler's proposed derivation, which makes δελφ-ί-s mean 'robber' (though the Skt. grabh only means 'take'), the derivation given above has this advantage that it

connects δελφίε with a word which exists on Greek soil. The dentalized st. δελφο occurs also in δελφαξ 'young pig.' This agrees well in meaning, so that it properly means simply 'pullus' with a specialising suffix. It is natural to suppose that the Lat. ger-men arose from gerb-men, especially as the Skt. word means also 'the fruit of plants.' Is it possible that grĕ-miu-m too is of the same origin? Cp. Walter 'Ztschr.' xii. 405, Corssen 'Nachtr.' 236, i². 799.

To these examples of $\beta = g$ occurring in ordinary Greek may be added one that is confined to the Boeotian dialect, βανά, βανηκός = γυνή, γυναικός already discussed at No. 128. This form is specially remarkable because the Goth. qvinô of like meaning shows us the addition of the parasitic v, while the OIr. ben (in compounds ban-, e.g. ban-chu 'canis' Z2. 854) shows also the fully developed labial, and it cannot be doubted that it comes from the rt. gan, rev. Perhaps there is a word in ordinary Greek as well which shows the same root with a β . We may safely compare the former part of πρέσ-βυ-ς with the Lat. pris- in pris-cu-s, pris-tinu-s, and the by-forms πρέσyυ-s and the Cretan πρεί-γυ-s render it probable (Ahr. 'Dor.' 111) that the syllable βv arose from γv ; the $\epsilon \iota$ of the latter form cannot have arisen in this dialect by compensatory lengthening, and so points to a st. $\pi \rho \epsilon i s = \text{Skt. } pra-jas \text{ comp.}$ of pra ('before'). The i too in pris-cu-s is long, as is shown by the apex on inscriptions (Brambach 'Orthogr.' 25), so that pris and $\pi \rho \epsilon is$ are identical, $\pi \rho \epsilon s$ may have come from $\pi \rho \epsilon is$, like the New-Ionic ἀπόδεξις from ἀπόδειξις. γυ may well be only a phase of the rt. γα, γεν, and accordingly πρέσ-βυ-s means 'born before.' The often-maintained derivation of this βv from the rt. ou cannot be reconciled with the dialectic forms, 480 still less the complete identification with the Lat. pris-cu-s, of which only the first syllable is related. Notwithstanding the somewhat antagonistic views of Schweizer ('Ztschr.' xii. 303), Sonne (ibid. 295) and Corssen i2. 781 I still hold to this derivation.

On VIB by the side of the Skt. nig it will be enough to refer the reader to No. 439.

As a matter of conjecture we may also class the β in $\tilde{\epsilon}\rho\epsilon\beta$ os and its derivative $\tilde{\epsilon}\rho\epsilon\beta$ $\epsilon\nu-\nu\delta$ -s (by the side of $\tilde{\epsilon}\rho\epsilon\mu-\nu\delta$ -s, cp. rt. $\sigma\epsilon\beta$, $\sigma\epsilon\mu-\nu\delta$ -s) as the representative of an original g, as

is done by Leo Meyer 'Ztschr.' vi. 19 and Grassmann ix. 28. For the meaning 'darkness,' 'gloom,' which occurs especially in έρεβος ΰφαλον Soph. 'Antig.' 589 and in the derived adjective, and that not exclusively in its usual reference to the lower world, answers completely to the Skt. rág-as, rag-ant in the attested meaning of 'darkness,' 'night' and to the Goth. riquis (σκότος) of like meaning. The prothesis of the ε would find its closest analogy in Ephuos (No. 454). The only reason why I do not give this comparison as certain is that there appears not only before ν, in δρφ-νό-ς, ὄρφ-νη, δρφ-ναΐο-ς, ορφ-νινο-s, which Fick i3. 498 connects with the ON. iarp-r 'fuscus,' but also before a vowel, in 'Oρφ-εύ-s, a word which is closely connected with the gloom of Hades, a ϕ instead of the β , and the assumption just given leaves the ϕ unexplained. Hence it is after all possible that έρεβος is connected with ἐρέφειν 'roof over,' 'cover,' seeing that elsewhere darkness is regarded as a covering, and that in some cases, which have to be discussed below, B has arisen from bh. Cp. Pott ii². 393, Walter 'Ztschr.' xii. 387.

The stem $\tau \alpha \rho \beta$, which occurs in $\tau \acute{\alpha} \rho \beta$ -os 'fright,' $\tau \alpha \rho \beta$ -é-ω 'fear,' $\tau \alpha \rho \beta$ -aλéo-s 'full of fear,' is compared by Kuhn 'Ztschr.' xiii. 454 with the Skt. $tar\acute{g}$ ($t\acute{\alpha}r\acute{g}$ -ā-mi) 'threaten,' 'drive at,' 'revile,' $tar\acute{g}$ -ana-m 'a threatening.' In spite of doubts expressed by Pott W. iii. 462, the comparison has everything in its favour, both sound and sense. Fick i³. 598 adds also the ON. thjarka 'scold,' AS. thrac-ian 'frighten.' It is still easier to explain tor-vu-s to be for torg-vu-s and from the rt. targ. I prefer however to omit $\tau \alpha \rho \gamma \alpha i \nu \omega$ ταράσσω compared by Froehde 'Ztschr.' xiii. 453, along with several glossematic words of similar meaning, and also $\tau \alpha \rho \acute{\alpha} \sigma \sigma \omega$ itself (st. $\tau \alpha \rho \alpha \chi$).

Aufrecht 'Ztschr.' xii. 400 points out an Indo-Germanic stem varg, with the meaning 'turn,' 'twist,' 'distort.' Hence the Skt. vrģ-inā-s 'crooked,' 'deceitful' (cp. δίκη σκολιή). The physical meaning has survived in the Lat. valg-u-s 'bowlegged' (cp. Corssen i². 543). Now to this corresponds the 481 Gk. ραιβό-s 'crooked,' 'crook-legged.' The only question is how the diphthong is to be explained. Aufrecht seems inclined to assign to Fραγ a weaker by-form Fριγ which occurs in the Goth. vraigu-s σκολιός, and to derive ραιβό-s thence by

addition of sound (Zulaut). But when we reflect how seldom a Gk. $\alpha\iota$ arises from an ι , it appears more likely that we ought to assume a form $F\rho\alpha\gamma\iota\iota o-s$, from which $F\rho\alpha\iota\gamma\iota o-s$ is developed, like $\epsilon\iota\nu\iota$ from $\epsilon\iota\nu\iota$, then by labialism $F\rho\alpha\iota\beta\iota o-s$ and then, like $\epsilon\iota\nu$, $\rho\alpha\iota\beta\delta -s$. The connexion of $r\bar{u}-g\alpha$, for * $vr\bar{u}-g\alpha$ with this root is supported especially by the AS. vrinc-le 'wrinkle.' But about verg-o I am doubtful. Perhaps we ought to connect some of the words discussed on p. 351 under No. 513. Froehde 'Ztschr.' xxii. 255 explains the Lat. ur-vu-s 'crooked' as for vorg-vu-s.

The same scholar ('Ztschr.' xxiii. 312) identifies $\sigma \epsilon \mu \nu \delta - s$ (cp. $\dot{\epsilon} \rho \epsilon \mu - \nu \delta - s$) along with $\sigma \dot{\epsilon} \beta \alpha s$ with the Gothic svik-n-s $\dot{\alpha} \gamma \nu \delta s$ 'pure,' 'chaste.' Phonetically there is no objection to this; on the contrary the preservation of the σ before a vowel indicates that the word once began with two consonants, and the more accurate account given in the 'Pet. Dict.' of the uses of the Skt. root make me hesitate about my former comparison of the word with the Lat. sev- \bar{e} -ru-s and the Skt. $s\bar{e}v$ ($s\bar{e}v$ - \bar{a} -mi) 'sojourn,' 'wait on,' 'attend to.' At the same time there is no inconsiderable difference between the meaning of $\sigma \dot{\epsilon} \beta \epsilon \iota \nu$, $\sigma \dot{\epsilon} \beta \epsilon \sigma \theta \alpha \iota$ 'reverence,' $\sigma \dot{\epsilon} \beta \alpha s$ 'religious awe,' and that of the Teutonic words. The latter come nearer to $\sigma \epsilon \beta$ - $\epsilon \rho \dot{\delta}$ -s- $\epsilon \dot{\nu} \sigma \epsilon \beta \dot{\gamma} s$, $\delta \dot{\iota} \kappa \alpha \iota \sigma s$ Hesych. A form *segv- $\bar{e}ru$ -s might help us to connect sev- $\bar{e}ru$ -s.

I do not venture to pronounce an opinion on the double forms $\gamma\lambda\dot{\eta}\chi\omega\nu$ and $\beta\lambda\dot{\eta}\chi\omega\nu$ 'pennyroyal' and the Dor. $\gamma\lambda\dot{\epsilon}\phi\alpha$ - $\rho\rho\nu$ by the side of $\beta\lambda\dot{\epsilon}\phi\alpha\rho\rho\nu$ 'eyelid.' Analogy and also the ChSl. glip-aja inf. glip-ati 'cernere' (Fick i³. 574) are on the side of the priority of the γ . Hugo Weber ('Etym. Unters.' i. 80, 85) has discussed these 'Wortbinionen,' as he calls them, and comes to the conclusion that the forms with γ are altogether distinct from the forms with β . But who will believe that language had two names for the same plant and the same part of the body, formed by the same suffix from different roots? Where a word begins with more than one consonant there occur, as we shall often find, particular letter-changes for which complete analogies cannot always be found.

There is only one root in which we can be sure of φ as the representative in ordinary Greek of an original gh, i.e. νιφ from snigh, discussed at No. 440, where its representatives with gutturals are adduced. The change from gh to φ pre-482 supposes a middle step ghv, clearly established by the Gothic and Slavonic hv. (Cp. Fick i³. 828, Ascoli 'Lautl.' 157.) It is to be noticed that this is the only instance of hv before a vowel in the middle of a word, and that the Latin forms with gu ningu-em, ningu-it, with the medial which regularly represents the aspirate, actually show us the group of sounds from which the Gk. νίφ-α, νίφ-ει arose.

The interchange of χ and ϕ in Greek itself is treated of by Lobeck 'Rhemat.' 31, with especial reference to the numerous instances where an initial $\phi\lambda$ answers to $\chi\lambda$. In particular cases y may really have been transformed to \(\phi_1 \), e.g. in \(\phi \lambda_1 \)αρό-s a by-form of χλιαρός (Hesych.), but it would be very rash to make this a sufficient reason for connecting Nos. 197 and 412, though they are of kindred meaning. Perhaps we may venture to place έλαφ-ρό-s under No. 168 with έλαχύ-s; at any rate the meanings present no difficulty. This view might find some confirmation in Hesychius's έλαθρά έλαφρά, in so far as it would serve to establish the variety of the form assumed by the aspirates. Hugo Weber ('Jahn's Jahrb.' 1863 p. 593) prefers to consider the forms separate in all these cases, and is not staggered by the strangeness of the coincidence that words of exactly the same meaning and even with the same suffix should have come from different stems. Joannes Grammaticus gives $\alpha \dot{\nu} \phi \dot{\eta} \nu = \alpha \dot{\nu} \chi \dot{\eta} \nu$ as Aeolic (Ahrens 42). We shall recur to this form below at p. 592 in connexion with Theocritus's αμφην. — Conversely the Thessalians said δαύχνη for δάφνη (Ahrens 'Aeol.' 219). The priority of the x is probable here too if we consider the general relation of the labial consonants to the gutturals, and agrees with Max Müller's connexion of Δάφνη in the sense of 'the morning glow' ('Oxford Essays' 1856 p. 57), with the Skt. dah-ana-s 'burning,' from the rt. dah (dagh) 'burn,' which gives the Daphne myth an ingenious interpretation. If we only saw how the Morning Dawn became the Laurel! Max Müller answers: 'by mere homonymy' ('Lect.' ii. 502) $\delta d\phi \nu \eta$ 'burning glow' became identified with $\delta d\phi \nu \eta$ 'laurel,' which was so-called because it burns easily. Cp. Hehn.³ p. 525. — W. H. Roscher calls my attention to Hesychius's glosses $\kappa a\phi d\zeta \epsilon \iota \nu$ $\kappa a\chi d\zeta \epsilon \iota \nu$ and $\kappa \omega \phi \epsilon \iota \epsilon \iota \nu$. In the former case the priority of the guttural is attested by cach-innu-s and the (unauthenticated) Skt. kakh (kdkh- \bar{a} -mi) 'laugh,' in the latter by $d\nu a$ - $\kappa \omega \chi \dot{\eta}$ and the related words. — There are one or two trustworthy instances of a Latin f, as the representative of an older gh, especially $fel = \chi \delta \lambda os$ (No. 200) and fri- $are = \chi \rho i \epsilon \iota \nu$ (No. 201). Cp. Corssen i². 159.

It is hardly safe to pronounce the words $\xi_{\chi l-s}$ (No. 172) and $\delta\phi_{l-s}$ (No. 627) identical, because the two words have not exactly the same meaning, $\delta\phi_{ls}$ being the genus 'serpent,' $\xi_{\chi ls}$ 483 the species 'adder' (Schol. on Eurip. 'Orest.' 479, Lobeck 'El.' ii. 364), and because both existed side by side in the same dialects. So that we have here quite a distinct case from that of $\gamma\lambda\eta_{\chi\omega\nu}$ and $\beta\lambda\eta_{\chi\omega\nu}$ discussed above.

Froehde in Bezzenberger's 'Beitr.' iii. 12 ff. tries to establish ϕ in a number of other words as the successor to gh, e. g. in the rt. $d\lambda\phi$ (No. 398), which he identifies with the Skt. argh, arh 'bring in,' 'fetch,' 'be worth' (cp. No. 165). There is much to be said for it, but there is a difficulty in $d\nu\epsilon\rho\epsilon$ 'clever' also I do not see how to separate the Skt. $rbh\alpha-s$ 'clever' from the rt. $d\lambda\phi$. Both Froehde and Fick ii². 175 connect $\phi\rho\ell\sigma\sigma\omega$ (rt. $\phi\rho\iota\kappa$) with the Sabine fircu-s, Lat. hircu-s and horrere, and the former holds that the OHG. niero (No. 435) proves that $\nu\epsilon\phi\rho\delta-s$ must have had a guttural originally, for though a g might have fallen out from the Teutonic word, a b could not.

d.

We have next to consider whether Labialism has at all extended its influence into the region of the dental consonants. As far as I know it has never been maintained that a Gk. π ever corresponds to an original t. And it would be hard to find any ground for such a view. Where an Aeolic π corresponds to a τ in the other dialects there is generally, as Ahrens

(p. 41) has correctly remarked, a guttural clearly underlying both sounds. In one proper name, which we may here consider with advantage, τF passes into π , so to speak, before our very eyes. $E \Sigma TFE\Delta IIY\Sigma$ is the legend on a coin from the Pamphylian Aspendos, that is, as Siegismund 'Stud.' ix. 93 shows, $Estvedius = A\sigma\pi \hat{\epsilon}\nu\delta\iota\sigma$. tv here became p as in the provincial German eppes = etwas, and like the way in which dv in the Lat. bi-s, bi-ni became b.

The same is the case with some words in which a dialectic β corresponds to an ordinary Greek δ , e.g. in the case of $\beta \epsilon \lambda \phi i s$ and $\beta \epsilon \lambda \phi i s$ mentioned at No. 645. — The origin of

 $\delta \beta \epsilon \lambda \delta s$ is uncertain, and hence it is uncertain also whether the Doric form ὁδελό-s or the ordinary Greek form is the older one. Perhaps the word belongs to $\beta \in \lambda \delta \nu \eta$ (No. 637); if so β and δ both came from an older g. — Since we see from No. 271 that in δέλεαρ the δ belongs to the root, we shall have to agree with Ahrens in reference to the Aeol. form $\beta\lambda\hat{\eta}\rho$ in assuming here a natural transition from δ to β , because δλ is a combination never allowed in Greek. We should have here then a real instance of δ becoming β , but it happens in a combination of sounds, and combined consonants 484 are not under the same laws as simple ones. — Βωδών given as the Thessalian equivalent of Δωδώνη (Ahr. 'Aeol.' 219) may easily have been connected with the name of the god so highly honoured there, and so with the stem Δι (No. 269) — Βώδων being for $\Delta(\iota) F \omega \delta \omega \nu$ — but the ω and the origin of the second syllable would still be obscure. (Otherwise Preller 'Gr. Myth.' i2. 96, Unger 'Philol.' xxiv. 397.) - With reference to the word σάνδαλον which in Aeolic was σάμβαλον, Schwabe 'De deminutivis' p. 83 has shown that it was probably borrowed from the Persians (sandal, 'calceus'). This would bring the fluctuation of the medial under the head of those double forms which arise so easily in the case of foreign words.

In the case of the labial aspirate contact with the dental region is more frequent. Every one knows how readily the dental aspirates change to labial aspirates in the Italian languages. With reference to these languages Ascoli suggests an explanation (mentioned above on p. 424) which rests on the assumption that it was not the aspirates themselves but only

the spirants that arose from them which changed the organ of articulation. Cp. Nos. 306, 307, 309, 311, 312 b, 314, 316, 319, 320, 325. As analogous to this movement we must consider the occurrence in the Aeolic dialect of $\phi = \theta$, to some extent in the same stems and roots; e.g. the Thessalian φήρ, φηρίον, as to which Ahrens ('Aeol.' 42, cp. 219) has collected the testimonies of the old grammarians. These forms are supported by the Thessalian proper name Φιλόφειρος (ει Thessal. and Boeot. = η) in No. 25 of the 'Inscriptiones ineditae,' published by Ussing (Havniae, 1847). The meaning of the name is clearly 'lover of the chase,' and strengthens the old assumption that the Thessalian name for the Centaurs, $\Phi \hat{\eta} \rho \epsilon s$, which Homer uses, is identical with $\theta \hat{\eta} \rho \epsilon s$. To this we must add the proper name $\phi_{\epsilon\tau\tau\alpha\lambda\delta s}$, occurring on a Theban inscription (Beermann 'Stud.' ix. 63), cp. fera (No. 314); perhaps Ahrens is right in assuming a φρόνο-ς = θρόνος in ποικιλόφρον' (Sappho 1) cp. No. 316; $\phi o i \nu \alpha = \theta o i \nu \eta$ 'banquet,' which only occurs at Alkman fr. 24 B3: φοίναις τε καὶ έν θιάσοισιν, where it may easily be an Aeolism. θοίνη, which I formerly connected with θύειν 'sacrifice,'—a comparison which involves some questionable assumptions—is best connected with the Skt. rt. dhi (dhino-mi) 'satiate,' 'delight' ('Pet. Dict.,' Van. 407). The substantive dhēnā, which Fick i3. 631 regards as completely identical with θοίνη, means ('Pet. Dict.') in the sing. only 'milch-cow,' in the plur. dhēnās 'a milk-drink' as well. φαρ-υ-μό-ς τολμηρός, θρασύς (Hesych.) has already been discussed in its relation to θρασ-ύ-ς under No. 315. φαρυ-μό-ς may easily be for *φαρρυ-μο-ς, *φαρσυ-μο-ς, as Θαρύ-μαχο-ς is without doubt for $*\Theta \alpha \rho \sigma \nu - \mu$. The word is an expansion from the shorter stem $\theta \alpha \rho \sigma v$, like $\eta \delta v - \mu o - s$ from $\eta \delta v$. — All 485 these words seem to belong to the Aeolic dialect. - In the Epirot inscriptions discovered by Karapanos (Dodone et ses ruines,' Paris 1878) there occurs, along with many instances of θεός, θύειν, an occasional φεός, φύειν ('Sixième catégorie,' Νο. 3, τίνι κα φεών ή ήρώων εύχόμενοι καὶ φύοντες άμεινον πράσσοιεν). This looks as if the Epirot labialism was a provincialism, which arose after the aspirates had passed into spirants, and is of the same nature as the modern Greek Fibae = $\Theta \hat{\eta} \beta \alpha \iota$, Russian Feodor = $\Theta \epsilon \delta \delta \omega \rho \sigma s$.

It is true that for the early period from which we get $\phi \eta \rho$ this assumption is open to grave objections. Perhaps in this case the v of the rt. dhvar, which we conjectured at No. 314 for $\theta \eta \rho$, was the cause of the change. — $\phi \lambda \acute{a}\omega$ by the side of $\theta \lambda \acute{a}\omega$ ('crush,' 'press hard') is ordinary Greek, as also is $\phi \lambda \acute{a}\omega$ by the side of $\theta \lambda \acute{a}\omega$ of similar meaning, related to the Lat. $fl\bar{a}g$ -ru-m, con- $fl\bar{v}g$ -e-re. Fick here calls in the aid of the Goth. bliggvan 'strike' to prove that θ came from ϕ (i³. 703). It might not be easy to prove this, but I see no clear grounds for the contrary assumption.

2. DENTALISM.

We have seen above how the change of an original guttural consonant into the corresponding labial admits, in most cases at least, of the explanation, that the labial spirant v affixed itself to a particular class of gutturals, and then exercised in time a retrospective labializing influence. But the gutturals have another tendency as well, namely that towards a union with the spirant j. This j developes most naturally out of a following i. The guttural shifts involuntarily forwards towards the palate and becoming palatal produces the palatal spirant between itself and the vowel to which this spirant is related. These changes have been thoroughly discussed by Rud. v. Raumer ('Aspiration und Lautverschiebung' p. 37), by Schleicher in his 'Zetacismus,' and by Ascoli ('Lautlebre' 76). The difference in the pronunciation of the Latin c, when followed by e or i is most minutely discussed by Corssen i2. 49 ff. Rud. v. Raumer, p. 93, is clearly right in his explanation of the process. He suggests that the c was in these cases pronounced as a palatal, i. e. like kj. It was not till the language had reached a further stage of developement that the soft palatal spirant j was replaced by the dental sibilant, and this in time produced the assibilation of the original letter, of which we have no clear proofs till a somewhat later period of Latin. It can hardly be doubted that the same principle 486 accounts for the origin of the palatal consonants in Sanskrit. Here, however, we must by no means look for the palatalizing

influence in the following vowel1, but must assume an involuntary shifting of the k towards the forward part of the mouth, best explained by the assumption of a parasitic j. In Greek we must assume for a certain period, which lies beyond the time of historical tradition, changes of a similar kind. We shall have to show below how this is the only assumption that will account for the origin of from yi and of the $\sigma\sigma$ (Boeot. $\tau\tau$) from kj. But this same hypothesis serves also to explain the undoubted occurrence of τ in a number of instances as the representative of an older k. We call this change Dentalism, though we consider it to have arisen throughout from an older Palatalism. Dentalism is therefore here the second stage of phonetic disfigurement. A still greater change arises when the sound after its first transformation produces a neighbouring sibilant out of the palatal spirant, and this is the explanation of the phenomena which Schleicher calls Zetacism. On finding then that a Gk. TE corresponds to an Indo-Germ. ka we assume the following steps in the process of transformation: $\kappa \epsilon \kappa j \epsilon \tau j \epsilon \tau \epsilon$. In the same way δ is connected with γ by the help of an intermediate γίδj. The assumption of the latter change is supported by Hesychius's ζεύσασθαι γεύσασθαι, confirmed by ζεύω γεύω ('E. M.'). For since it is well known that ζ does arise out of δ, we can here all the more certainly infer the existence of the conjectured intermediate δj . This process serves to put in a clear light the parallelism between Dentalism and Labialism. The former, however, is still rarer in Greek than the latter. Undoubtedly too it is no mere chance that the κ which changes to τ is almost always followed either by an ι or by the allied

¹ F. de Saussure in the 'Mém. de la soc. de linguist.' iii. 359 acutely brings his attempt to demonstrate an original variety of a's into connexion with his question. We should then be able to explain the distinction between ârka-ti and ârka-s and the like by taking the a in the first case as of the nature of an e, in the second as of the nature of an o. It remains to be seen if this theory admits of general application. Somewhat similarly Collitz in Bezzenb. 'Beitr.' ii. 305. Osthoff 'Morpholog. Unters.' i. 116 propounds the same view as held by Verner. — We may now refer to the paper of Collitz and Hübschmann ('Ztschr.' xxiv. 409) already mentioned on p. 87.

We also find quattor with assimilation of the v (Ritschl 'Rhein, Mus.' viii. 309). Thence we arrive at the Umbr. petur-, which only occurs in compounds, at the Lat. quadru=quartu (quartu-s most likely from quatru-tu-s), at the Osc. petor-a (Fest. p. 206), at the Goth. fideer and fidur and at the Homeric πίσυρ-ες, Aeol. πέσσυρες (cp. Ahrens 'Aeol.' 409). Since we find oo as well as v in the latter form, it must be derived not from the shorter katur but from katvar, méggypes being for πετ Fapes, whence the Boeot, πέτταρας. According to the rules of Aeolic, v represents the a-sound, which appears dulled also in the Dor. τέτορ-ες for τετ Fopes (τέττορες is suspicious, Ahr. ' Dor.' 279). - From k were developed by palatalism the Skt. K and the Slav. E, along with which must be classed the Doric and Ionic 7, while oo in τέσσαρε-s is clearly for σf, for τf. - τρά-πεζα shortened for *τετράπεζα, τρυ-φάλ-εια according to Fick in Bezzenb, 'Beitr.' i. 64 for *τετρυφάλεια, *τετρυ = Lat. quadru. — The Ir. fem. cetheoir for a pre-historic cetesor-es corresponds admirably to the Skt. fem. Katasr-as.

649. Root τι τί-ω (τείω) pay, value, honour, τί-ν-ω pay, expiate, mid. (Hom. τΐ-νν-μαι) get paid, exact a penalty, punish, τι-μή price, honour, τιμά-ω honour, value, τίμη-μα valuation, census, τιμη-τή-s censor, τί-σι-s penalty, regard (Theogn. 337).

Skt. ki (ki-nō-mi) arrange in order, pick up, gather, ki mid. (káj-ē) avenge, punish, apa-ki-ta-s honoured. Zd. ci collect, seek, ci expiate, ci-tha, ci-thi penalty, kaêna revenge.

On the forms with et reiw, Teivias, amoreivet 'Gk. Verb,' p. 158, Gust. Meyer Bezzenb. 'B.'i. 82, Sauppe 'De tit. Tegeat.' Gött. 1876-77. τείω corresponds exactly to the Skt. Kájē. — Benfey ii. 332 ff., Kuhn 'Ztschr.' ii. 387, Fick i3. 532, whom I cannot follow in their developement of the meaning, because it seems to me in spite of Pott's objections (W. i. 463) that the meaning 'pay' is the fundamental one for the Greek words. This appears most clearly in Homer, e.g. χ 218 σφ δ' αὐτοῦ κράστι τίσεις, in ἀπο-τίνω (Θ 186), in τιμήεις, which almost universally means 'pretiosus,' 'costly,' and in the relation preserved by τιμή, τίμημα to the latest times, to payments of different kinds. The meanings branch out therefore in two directions-'to set a price on,' whence 'value,' 'estimate,' 'honour'-and 'to give a price for,' whence 'pay,' and in the middle 'get paid,' 'exact as penalty.' - There is considerable difference between this use and that of the Skt. rt. Ki, of which the 'Pet. Dict.' gives four distinct meanings. Grassmann however ('Wörterb.' p. 444) decides in the main for the explanation here given for the first ki 'put in a row,' which he separates completely from the second, which means 'perceive.' We see other instances in ap-ι-θμό-s and num-eru-s (No. 431, 488) of the developement of the idea of number from that of 'fitting,' 'arranging' in a row or otherwise, and for the notion 'punish' we find analogies in the rt. veµ (νέμεσις) No. 431. From the cognate languages we may perhaps find a related word in koios, according to Athen. X p. 455 d the Macedonian for 'number.' In ChSl. (Miklos. 'Lex.' 1117) we find če-na τιμή ' pretium,' čen-i-ti τιμαν, ' aestimare,' and čin-ŭ τάξις (in Russian the 'Tschin' is the order of the precedence of officials, cp. τιμή in the sense of an office). On the other hand čit-a ἀριθμῶ, ἀναγιγνώσκω corresponds to the Skt. rt. Kit which is apparently expanded by a t, though the meanings of the latter have taken another direction (Schleicher 'Ksl.' 99). - Is it possible that after all the Lith. skait-y-ti 'count,' 'pick up,' skait-lius (=ChSl. čislo) 'number,' has preserved what was the complete form of the initial letters? Benfey 'Or. u. Occ.' ii. 379 conjectures that ski was the full form of the root, but gives quite a different interpretation of it, connecting with it the Lat. sci-o. The latter, however, has I think been explained more simply at p. 109. From the same root arose by labialism the Cypr. πείσει discussed on p. 487 and apparently ποινή. - From Irish we have possibly a connexion in cin, gen. cinad 'debt.'

650. τί-s n. τί interrog. pronoun, when enclitic, indefinite.
— Skt. nά-ki-s nemo, mắ-ki-s (Zd. mâ-ci-s) nequis, ki-m quid? Zd. ci-n-em acc. s. = τί-ν-α, ci-s-ca quisquis. — Lat. qui-s, qui-d, Osc. Umbr. (indefin.) pi-s, pi-d, Osc. pit-pit (Festus) = quid-quid. —OIr. cia quis? Cymr. pui, puy quis?

Bopp 'Vgl. Gr.' ii². 207, Fick i³. 532. — All these forms are to be referred to ki, the weaker form of the interrogative stem; the stronger form is treated of at No. 631. Bopp is most likely right in adding to the list the pronominal enclitic adverb kit or kid which is attached to particular pronouns (kaq-kit 'aliquis') and with a variety of meanings to other words, and is perhaps the best correlative of the Osc. pid mentioned at No. 647. (Otherwise Boehtl. and Roth in the 'Pet. Dict.'). — On traces of this i-form in Slavonic cp. Schleicher 'Ksl.' 266 f. — As the double π in $\delta\pi\pi\omega$ s was deduced at No. 631 from κf , πf , we must deduce the double τ in the likewise Homeric 490 and Aeolic $\delta\tau\tau\iota$ (Aeol. also $\delta\tau\tau\iota\nu$ as in the acc. plur.) from kj and τj . So Schweizer 'Ztschr.' xii. 304, who points out that O. Müller gave

this same explanation in 1831. α-σσα for α-τια α-τjα from the expanded stem τιο which appears most clearly in the Lesb. τίφ, τίοισι (Ahr. 'Aeol.' 127). Cp. below p. 608.

There is some doubt about the etymology of the Aeol. $\pi \eta \lambda \nu \iota = \tau \eta \lambda \delta \sigma \epsilon$ (Ahrens 41), to which may be added the proper name Πηλεκλέας from a Delphian inscription (Ber. d. k. s. Ges. d. W.' 1864, p. 218). Keil indeed ('Rhein. Mus.' xix. 616) regards it as simply a mistake for Τηλεκλέας. dialectic interchange of π and τ leads us to suppose that both sounds, as in the interrogative stem, originated in the guttural. But the Lat. pro-cul compared by Christ 113, which we must not separate from cellere, and in which we must assign the chief force to the preposition, as well as the Skt. Kirá-s 'long' (of time, cp. the OIr. clan 'long'), and the rt. Kal 'tremble' are too far removed in meaning. Even the superl. Kar-a-má-s 'the last' is not after all equivalent to 'the farthest.' And since we meet the latter idea in the Lith. tol' (adv.) 'far,' 'a long way,' and again find other close connexions of the same words also with a t (Benf. ii. 256, Fick i³. 592), the whole comparison becomes a doubtful one, especially as it is not beyond the bounds of possibility that the different Gk. dialects developed the same idea from two distinct stems.

On the other hand there is one example which shows us 7 on Greek soil by the side of k. Lobeck 'Pathol. El.' i. 20 adduces from the 'E. M.' 48, 39, where Herodian is given as its voucher, the form $\dot{\alpha} \kappa \iota \nu \dot{\alpha} \gamma \mu \alpha \tau \alpha = \tau \iota \nu \dot{\alpha} \gamma \mu \alpha \tau \alpha$, 'vibrations,' and from Hesych. ἀκίναγμος τιναγμός κίνησις. With the help of a prothetic à then the rt. ki (No. 57) survived in these forms. while it assumed the τ in the usual $\tau \iota \nu \acute{a} \sigma \sigma \omega$ and its derivatives, clearly not without the operation of the neighbouring t. Otherwise Fick i3. 593. — Sonne's conjecture (Ztschr.' xiv. 331), that the variously-explained τηλύ-γετο-ς corresponds in its first factor to the Skt. Karu-s 'pleasant,' 'welcome,' is certainly temptingly satisfactory as far as meaning goes, but this kind of comparison of isolated words can never have much evidence in its favour. It is conceivable that the word may be related to No. 239 b, more particularly to taruna-s' tender' and Takis.

b.

here are but very few cases in which dentalism has clanged an original q to 8. In most of them the different alects vary to the extent of showing in some cases a y or \$, 491 nd even t in the place of S. Under this head comes the Arcad. $\zeta \in \lambda \lambda \omega = \beta \acute{a} \lambda \lambda \omega$ rt. gal (No. 637), $\acute{e}\pi \iota - \zeta \alpha \rho \acute{e} - \omega$ by the side of βαρύ-s for γαρυ-s (No. 638), δελφύς and δολφός mentioned at No. 645, the latter of which corresponds letter for letter to the Skt. garbha-s, possibly too δέρεθρον λίμνη ἀποχώρησιν ἔχουσα (Hesych.), in so far, that is, as we can venture to identify this with ζέρεθρον, βάραθρον No. 643. In that case ξ arises from dj for an older gj, δ comes from dj by suppression of the j, and $\xi \epsilon \rho - \epsilon - \theta \rho \rho - \nu$ is related to $\delta \epsilon \rho \epsilon \theta \rho \rho \nu$, ζέλλω to δέλλω, as ρέζω is to έρδω from the rt. Fepr (No. 141). - The same is the relation between ζεύσασθαι and δεύἀσθαι, both explained by γεύσασθαι (No. 131) in Hesych., the former probably Arcadian, the latter Cyprian (Gelbke 'Stud.' ii. 29). - Again ζά-ω belongs to the group discussed at No. 640. It stands for $*\delta j\alpha - \omega$ and its most natural derivation is from the rt. qi (Zd. jî 'live; 'cp. Grassmann 'Ztschr.' ix. 27, and Brugman 'Morpholog. Unters.' i. 7). The two synonymous stems (a and \$10 are then phonetically related: (a arose by dentalism from the shorter rt. gi, \(\beta_{io}\) by labialism from the expanded giv (Skt. gīv). — To these examples of c representing y Leo Meyer (i. 38) adds the remarkable form of the participle $\pi \epsilon - \phi v \dot{\zeta} \delta \tau - \epsilon s$ which is confined to books ϕ and X of the Iliad, explaining it by $\pi \epsilon - \phi \nu \gamma - F \circ \tau - \epsilon s$. The original existence of the F in the participial suffix is attested by the Skt. $-v\bar{a}s$, -vat, but as a matter of fact the sound is nowhere to be found in any Gk. dialect, and must have been as good as extinct as early as Homer; for forms like $\epsilon i\delta$ - $\delta \tau \epsilon s$, $\delta \rho \eta \rho$ - $\delta \tau \epsilon s$, $\pi\epsilon\phi\epsilon\nu\gamma$ -ores cannot be reconciled with the existence of a F. It is improbable therefore that we should have in such a rare participial form the one single surviving trace of the old spirant. It would be possible indeed to bring forward the Hesiodic λελειχ-μότ-ες ('Theog.' 826) and derive its μ likewise from F, while the third of these rare perfect forms μεμυζότε 'rotting,' from the rt. μυδ, in Antimachus (Buttm. 'A. Gr.' ii².

31), does not admit of such treatment so readily. The change of γ to ζ in any case remains unproved. In πεφυζότες there is a further anomaly in the vowel of the stem, which is never short in the perf. partic, except before the feminine suffix $(i\delta - vi\alpha)$ and that of the middle $(\pi \epsilon \phi v \gamma - \mu \epsilon v \sigma s)$. Now since we can explain the ζ in the subst. φύζα (cp. μᾶζα) more simply by the help of the suffix $\iota \alpha$ (cp. $\mu \alpha \nu - i \alpha$) and since we find the same ζ in φυζακινό-ς (N 102) and in the later φυζαλέος, where there is no trace of a F, it seems to me incomparably more probable that πεφυζότες along with its two comrades arises from the introduction into the verb of a noun-theme $(\phi v \zeta \alpha,$ 492 ou(o), of the same kind as those we are compelled to assume in the case of the aor. έχραισμ-ο-ν from χραισμο=χρησιμο, of θέρμ-ε-σθαι 'get warm,' and of ημαρτ-ο-ν, ήλιτ-ο-ν ('Gk. Verb' p. 408), or possibly from a pres. * $\phi \dot{\nu} (\omega = \text{Lat. } fug-io.$ The Laconian form of γέφυρα (discussed at No. 125) was διφοῦρα (Ahr. 'Dor.' 122, 124). We should here maintain the origin of the & from y more decidedly, if the root of the word were better established, and if there had not been also preserved the curious Theban βλέφυρα (Ahrens 'Aeol.' 174) though Beermann 'Stud.' ix. 58 ingeniously suggests that this is a mistake for βδέφυρα. In any case the word is very peculiar. — Still more doubtful is $\delta \epsilon \hat{v} \kappa o s = \gamma \lambda \epsilon \hat{v} \kappa o s$, which is said to be Aetolian (Schol. ad Nicandri 'Ther.' 625). Although the Lat. dulcis gives some support to the dental, it is possible after all that the whole form is only advanced to explain the Hom. άδευκής. Since, however, Apollonius Soph. in his Lexicon (cp. Hesych.) gives quite another explanation of άδευκής (ἀπεοικώς, ἀπροσδόκητος), the Aristarchian school seems to have known nothing of δεῦκος, and the stem-form which is presupposed has hardly any authority at all. — On the very doubtful tradition that $\delta \hat{\alpha}$ is a Doric by-form of $\gamma \hat{\alpha}$ $\gamma \hat{\eta}$ and appears also in $\Delta \alpha - \mu \hat{\alpha} \tau \eta \rho$, $\Delta \eta - \mu \hat{\eta} \tau \eta \rho$ with dental instead of guttural, it is enough to refer the reader to Ahrens 'Dor.' 80. — We shall have to treat later of δν by the side of yν in δνόφος and γνόφος and of a few other cases.

In conclusion we should have a case of δ representing an original guttural at least in one tolerably widely ramifying root in ordinary Greek, if we were sure that Benfey (ii. 140) is

a rt.

right in comparing the Gk. δράσσομαι with the Skt. grah, Ved. grabh. But, however great the agreement in meaning between δράσσεσθαι 'grasp,' δραχμή 'a grasp,' 'handful,' δραγμίς ' three fingers full,' 'a pinch,' and the Skt., the phonetic difficulty is just as great. For by the side of the χ of δραχμή we get a γ in δράγμα and actually a κ in δράξ δρακός 'hand,' with which M. Schmidt also puts δάρκ-ες δέσμαι (Hesych.) i.e. 'bundles,' manipuli, δράγματα¹. On the other hand we have already seen the rt. grabh ending in a labial in Boépos and δελφύ-s (No. 645). The antiquity of the labial aspirate is attested also by the clearly related OPers. garb, Zd. garew 'take' (Benfey 'Die pers. Keilschriften' p. 80), Lith. greb-ti 'grasp,' ChSl. grab-i-ti 'carry off,' 'rob' (Schleicher 'Ztschr.' vii. 223, cp. Delbrück 'Ztschr. f. d. Philol.' i. 15), with which the Gothic 493 greip-an agrees in all but the tenuis. This shows the h in grah to be a remnant of bh, and we cannot give anything but grabh as the Indo-Germanic root, from which we could not arrive safely even at Spax. But the only possible root to which we can refer the Greek forms is δρακ, whence δράγ-μα is formed like πλέγ-μα from the rt. πλεκ, δραχμή like πλοχμό-s. To the rt. δρακ, which we thus arrive at, corresponds possibly—though this is a mere conjecture—with loss of its initial consonant, the Lith. rink-ti 'collect,' 'pick up,' 'gather,' and the Lith. rank-d, ChSl. rak-a 'hand,' of like meaning with δράξ (Hesych. δρακός της χειρός); otherwise Lottner 'Ztschr.' xi. 181, Miklos. 'Lex.' 815. Perhaps too δρέπ-ω has been labialized and belongs here, though Pott (ii2. 464) regards it as an expansion of the rt. δερ (No. 267). Hence δρέπ-ανο-ν 'sickle.' If so, the Coan promontory Δρέκ-ανο-ν is nothing but the older form of the oft-recurring $\Delta \rho \epsilon \pi - \alpha \nu_0 - \nu$. So different is the road on which a strict observance of phonetic rules here compels us to travel.

Walter's conjecture ('Ztschr.' xii. 406), that δύ-να-μαι belongs to the rt. gnā (No. 135), δί-δυ-μο-s to the rt. gan (No. 128), does not seem to me to carry conviction with it owing to the want of correspondence in the vowels, though it has the support of Bugge 'Ztschr.' xix. 422.

The same consideration invalidates Fick's ε δαρχ (i³. 619). For there is no such thing as a

We have only one fairly certain instance of the change of an original gh into θ . It is noticeable that Latin in this case uses the labial spirant to represent the guttural, a fact which points to an early fluctuation of the organ of the initial aspirate (Ascoli 'Ztschr.' xvii. 340).

651. Root $\theta \in \rho \in \rho - \rho = \mu \alpha i$ warm, glow, $\theta \in \rho - \rho = \rho = \mu \delta = \rho = \mu \delta$ warm, hot, $\theta \in \rho = \mu \delta = \rho = \rho = \rho \delta = \rho = \rho \delta$ (pl.) places with hot springs, $\theta \in \rho = \rho = \rho = \rho \delta = \rho = \rho \delta =$

Skt. rt. ghar (g´i-ghar-mi, ghṛ-nō-mi) shine, ghar-mã-s glow, warmth, OPers. gar-ma-pada a summer month, Zd. gare-ma warm, hot.

Lat. for-mu-s, form-idu-s hot, for-nu-s (fur-nu-s) stove, whence forn-ax.

Goth. varm-jan, OHG. war(a)m.

ChSl. gr-ĕ-ti θερμαίνειν, gor-ĕ-ti ardere. OPrus. gor-me heat.

OIr. gor warmth, fire, goraim I warm, burn.

Bopp 'Gl.,' Benf. ii. 195, Grimm 'Gesch,' 405, Schweizer 'Ztschr.' iii. 346 f., Leo Meyer viii. 274, Schleicher 'Ksl.' 105, 108, Nesselm. 494 'Altpr. Vocab.' 22, Grassmann 'Ztschr.' ix. 29, where also the Skt. ghal-ā is compared, which among other meanings has that of 'the sun's heat.'— In the face of the frequent representation of r by λ and the Hesychian forms θαλ-υ-κρόν λαμπρόν, θερ-μόν, θαλύψαι θάλψαι, πυρώσαι it is hardly possible to regard θάλ-π-ω as anything but an expansion of the same root by π (cp. above p. 60; Pott ii2. 468) to which Lithuanian gives us a remarkable analogy in žer-p-le-ti by the side of žer-č-ti 'glow,' 'gleam.' - On the OPers, form see Spiegel 'Altp. Keilschr.' 195. - for-mu-s and formi-du-s are given by Paul. 'Epit.' p. 83, who rightly connects with it for-cep-s 'tongs,' an older form of which, formu-cap-es (plur. = forcipes) at p. 91 has been restored by Scaliger. A further modification is to be seen in forp-ex which has a diminutive suffix added. If we consider Latin alone we shall be strongly inclined to consider fer-v-o, fer-v-e-o and all belonging to them as connected. But the v gives rise to difficulties, and since the special application of the verb seems to be to boiling water, I regard as more probably correct the attempt made at No. 415 to connect it with πορ-φύρ-ω, φρέ-αρ, which is supported by the form de-fru-ere = de-ferv-ere, whence comes de-frū-tu-m 'must.' Otherwise Grassmann 'Ztschr.' xi. 88, Walter xii. 414. -On an Italian f for an old gh cp. fos-ti-s = hosti-s, Goth. gast-s, ChSl. gosti, Corssen i2. 158. - We can hardly doubt an original connexion with the words discussed at No. 202, 200, 197, especially as we find in Skt. the word ghra-sa-s with the meaning 'heat of the sun,' 'sunshine,' from a stem expanded by n. - Fick (is. 81) gives a very different account of the words here collected. He traces them to no fewer than five different stems: (1) θέρ-ος, θερ-μό-ς, to the root contained in the AS. der-ian with the meaning 'hurt,' 'injure,' quoting in support Z 331, Λ 667 πυρός δηίοιο θέρεσθαι. But θέρεσθαι, θερμός, θερμαίνειν often denote a 'mild warmth' (θερμά λοετρά), and it is very improbable that θέρος 'the ripening summer time,' properly meant 'hurting.' On the meaning of the rt. 8cp cp. Heinr. Schmidt 'Synon.' ii. 301 ff. (2) for-mu-s he traces to the stem of fervere discussed above; (3) the Goth. var-m-s to var, the root of the ChSl. var-i-ti 'boil.' This is phonetically possible, but this root is, according to Fick i3. 213, represented in Teutonic by the OHG. wal-m 'heat.' I leave others to decide whether there are analogies in Teutonic languages for the loss of a g before v which we must assume if we want to connect ghar and (q)var. (4) the Slavo-Lettish words, which the 'Pet. Dict.' also connects with our present root, he refers to the rt. quar, to which belong the Skt. gvará-s 'glow,' gvál-a-ti 'he glows;' while (5) with the Skt. ghar-má-s he connects Hesychius' χλεμε-ρό-s (χλεμερόν χλιαρόν, θερμόν). Though it is extraordinary to find θ as the representative of gh, I cannot get over the fact that we find the stem ghar-ma, sometimes as a substantive, sometimes as an adjective in six families of languages in an absolutely similar use. - Perhaps we may also connect the OIr. gorm 'dark' ('red,' blue'), Cymr. gwrm 'dusky,' with the Skt. gharmá-s. Stokes 'Corm. Transl.' p. 85 adds also the Ir. gronn, gorn 'firebrand,' and further (after Siegfried 'Miscell. Celt.' p. 10), the OGall. Apollini Granno, cp. the Skt. ghṛná-s, ghṛni-s 'heat,' 'sunshine ;' the same root occurs probably in the OIr. grian gen. grene 'sun.' The Ir. sornd 'oven' is fornus borrowed.

If we were right in comparing at p. 482 $\dot{\epsilon}\lambda\alpha\phi\rho\dot{\delta}$ -s with 495 $\dot{\epsilon}\lambda\alpha\chi\dot{\nu}s$ (No. 168) we should have in the $\dot{\epsilon}\lambda\alpha\theta\rho\dot{\delta}s$ there mentioned an example of a dialectic $\theta=gh$. The variation between χ and θ in the Dor. $\dot{\delta}\rho\nu\bar{\iota}$ - χ by the side mary Greek $\dot{\delta}\rho\nu\bar{\iota}$ - θ and the shorter $\dot{\delta}\rho\nu\iota$ (acc. $\dot{\delta}\rho\nu\iota$ -s) as

yet unexplained. It seems, however, to me to be not improbable that the Dor. x is connected with the x of the Boeot. diminutives in -1xo-s and bears just the same relation to this fuller form that the $-\nu\theta$ of the stems $\dot{\epsilon}\lambda\mu\iota-\nu\theta$, $T\iota\rho\nu-\nu\theta$ bears to formations like Κόρ-ι-νθο-ς, μίνυ-νθα (Pott 'Personennamen' 451), of which the latter (cp. μινυνθάδιο-s) is especially applicable to the case in point. We may, I think, regard these suffixes as diminutive, and compare the x with the often recurring diminutive κ , and the θ with the t that serves the same purpose in the related languages. Compare μικύ-θι-νο-ν τὸ μικρον καὶ νήπιον Hesych. As an example of a Gk. diminutive formation in τ we have $\nu \eta - \pi \dot{\nu} - \tau \iota - o - s$ (cp. p. 471) from $\nu \dot{\eta} \pi \iota o$ -s, and much the same in $\tau \dot{\upsilon} \tau \theta o$ - ν which is most probably like τυννό-ς, τυνν-οῦτο-ς a diminutive from the demonstrative st. τo . The Boeotians moreover aspirate an original τ in the personal terminations $-\nu\theta\iota$, $-\nu\theta\omega$, $-\nu\theta\sigma$, $-\nu\theta\alpha\iota$. — In modern Greek, as Baumeister 'Euboea' p. 57 shows, now and then θ takes the place of χ , e.g. in $\Lambda \iota \theta \alpha \delta \delta - \nu \eta \sigma \alpha = \Lambda \iota \chi \dot{\alpha} \delta \epsilon s$, though we also find χ for θ , if $\tilde{\eta}_{\rho\chi\alpha}$ from the Greek of Ceos is really identical with $\eta\lambda\theta\sigma\nu$, and is not to be regarded as nearer to έρχομαι. — Bezzenberger's bold assumptions ('Beitr.' ii. 190 f.) as to the substitution of a θ for ϕ and χ I cannot adopt.

d.

All that can be adduced in support of the change of original labials to dentals is untrustworthy.—That τ is ever the representative of an original p has hardly been maintained at all. The only case that looks at all like it is that of the Greek for peacock $\tau a \tilde{\omega}$ -s or $\tau a \tilde{\omega} \nu$ (so according to Athen. ix. 397 e), compared with the Lat. pavo (st. pavōn). But after what Pott ii¹, 443, Benf. ii. 236, the 'Thesaurus' of Stephanus and Vaníček 'Fremdwörter' p. 55 have told us about this word it seems impossible to doubt that the word is no native, and that there is nothing to show that the Lat. p is older than the Greek τ .—The Doric form $\delta\delta\epsilon\lambda\delta$ -s by the side of $\delta\beta\epsilon\lambda\delta$ -s in ordinary Greek has already come before us at p. 483, and we found no warrant for regarding the latter as the earlier form.—It is

less unusual to find ϕ and θ confronting each other from different dialects. The cases in which it appears that the dental aspirate is the older one have been discussed above. The converse of this relation occurs in δθρυ-s, which has already been connected with δφρύ-s under No. 405. We find the word given not only as the name of a mountain, but also as an appellative: Hesych. δθρυν Κρητες τὸ δρος, to which 496 belongs the adj. δθρυδεν τραχύ, ύλωδες, δασύ, κρημνώδες. Since odpov-s is often used for the 'brink of a precipice.' 'high ground, and "/λιος δφρυδεσσα X 411 occurs in the sense of κρημνώδες which is given as the equivalent of δθρυδεν, there can be no doubt as to the identity of the words. The Spartan 'Oθρυάδας very likely belongs here, with the meaning 'superciliosus,' forming a parallel to the comic όφρυανασπασίδης, perhaps too — though this is doubtful — the Homeric 'Oθρυσνεύς (N 363 ff.). — θύλλα (κλάδους ή φύλλα ή έορτη Αφροδίτης Hesych.) is held by M. Schmidt, though doubtfully, to be the Cretan form of φύλλα¹, in which at No. 418 we recognized the labial initial as belonging to the original root. — The word θυλλί-ς (by-form θυλί-s) 'bag,' also preserved by Hesych. along with θύλ-ακο-s of similar meaning, I have ventured ('Ztschr.' ii. 399) to compare with the Lat. folli-s' bag,' 'bladder.' If it is right to compare the Goth. balg-s, which agrees precisely in meaning, and is compared with follis by J. Grimm 'Gesch.' i. 398, we shall have to start with the initial bh and derive the dental Greek aspirate from the labial, especially as the latter is also supported by the OIr. bolc 'uter,' 'saccus' ('bulgas Galli sacculos scorteos appellant,' Festus; Z². 14, Diefenbach 'Wtb.' i. 270 f.). The v of the Greek words seems to have arisen from a, for we find in Hesych, the by-form $\theta \alpha \lambda \lambda is$. The double l has most likely arisen from the assimilation of some suffix or other. On the other hand θύλακο-s has been expanded by the addition of a suffix of some kind (cp. φάρμακο-ν, ὄστρακο-ν). Cp. Pott W. i. 264. — There is more doubt about Pott's conjecture (i. 27) of the identity of the θ in the stem κορυθ (κόρυ-ς 'helmet')

¹ A justification of his doubt is furnished by the OGall. πεμπέδουλα for πεντά-φυλλον in Dioscorides ('Gr. Celt.²' p. 371, cp. 37), Ir. duillen 'folium,' 'Ir. Gl.' 765, dulebad 'foliage,' 'Corm. Transl.' p. 58, Cymr. deil 'folia,' dalen 'folium' Z². 295,

At the first glance the identity of these words seems evident to any one from the complete identity of meaning, and the (apparently) almost entire agreement in sound. But I have maintained above, not without the most cogent reasons, and following the example of Schleicher ('Zeitschr.' iv. 399 [cp. 'Comp.³' p. 206]) and, as Pott W. i. 992 informs me, of Windischmann before him, that Gk. $\theta\epsilon\delta$ -s is quite distinct from the words that come from rt. $\delta\iota\mathcal{F}$ 'shine.' I will however go into the question here with more precision, because of the importance of the word, and because of some new points of view, which have been recently suggested.

In the first place, to get a clear view of the relations of the vowels, the Skt. devá-s evidently goes back to dai-vas. From this we arrive, it is true, at the Ital. deivo-s, and from 514 this again at *deu-s, deu-s (Corssen i2. 381), but the vowel of the stem-syllable in $\theta \epsilon \delta$ -s of itself creates difficulties. In the numerous derivatives there is not a single trace 1 of the diphthong et, which we expect as the representative of the Skt. ? and of the Osc. ei (deivai = deae). To prove a trace of the f. forms like Θεῦ-γνι-ς, Θεύ-δοτο-ς in certain branches of Doric have been appealed to, but it results from Ahrens' discussion of these forms (' Dor.' 215), that ev is here contracted from ea. Still less can anything be proved by the form $\theta \in \hat{v}$ -s, the only certain instance of which is in Callimach. 'Hymn, in Cer.' 58 ($\gamma \epsilon i \nu \alpha \tau o \delta' \dot{\alpha} \theta \epsilon \hat{\nu}_{S}$). Instead of the corresponding accusative θεῦν v. 130 Meineke and O. Schneider, with good MSS. have taken into their text θεόν. This form is naturally also contracted, and there is a very easy solution of the objection which Sanneg raises against it in his doctoral dissertation 'De vocabulorum compositione Graeca' (Halis 1865) p. 14, to

It is true that on late inscriptions ΘΕΙΟ € occurs for θεός, but K. Keil, who discusses the question 'Zur Sylloge inscript. Boeotic.' Supplementb. iv. to Jahn's 'Jahrb.' p. 615, shows that we have to do here with times and districts, which occasionally supply us IEPEIΩN for lερέων, ATEIΛΕΙΑΝ for ἀτέλειαν, and the like. Forms of this kind therefore belong to that period of the Greek language, in which e and i begin to be confused, and in which undoubtedly EI was pronounced like i. It would be a defiance of all critical principles to choose to employ such examples to explain any Greek etymologies.

the effect that a form $\theta \epsilon \hat{\nu} s$ contracted from $\theta \epsilon \hat{\rho} s$ would be necessarily oxytone. For Herodian, the master of prosody, περί μονήρους λέξεως p. 6. 8 expressly ascribes this accent to the word: τὸ δὲ θεὺς ἐκ συναλοιφῆς ἐστι ποιητικόν. Hence O. Schneider with the best MSS. actually writes θεύς. Voretzsch 'De inscriptione Cretensi' (Halis 1862) appeals to the proper name Θευόδοτος. But this name is found, not as V. says 'in nummo Apollonopolitarum,' but in an inscription of thanksgiving set up by a Jew of Apollonopolis at a late date, and the editor, Letronne ('Revue de Philologie' tome i. 304, 1845) even regards it as possible that the reading is incorrect. What can be the value of such a late scrawl, which is put out of the question simply by its date, in the case of a word, which is transmitted to us a thousand times from all dialects? If the writer did write so at all, he confused Θεύδοτος and Θεόδοτος. At the first glance more weight seems due to a form, which has been quoted by the same scholar from Cretan coins, and has been regarded by others as a certain proof that between the two vowels of $\theta \epsilon \delta s$ a F once existed. There are two coins of Gortys, both preserved in Paris, described by Monnet 'Déscription de méd. antiques' vol. ii. p. 280, Nos. 179 and 185, with the legend ΓΟΡΤΥΝΙΩΝ ΘΙΒΟΣ. But the second 515 of these is regarded by authorities on numismatics as decidedly spurious, and hence we cannot take it into consideration. The first, No. 179, is regarded as genuine, but as 'tolerably late' if only from the character of the letters, especially from the Σ ; it has upon it the figure of Herakles with $YNI\Omega N \Theta/BO\Sigma$ written round it in regular characters, so that the figure comes between the two words. Now Voretzsch regards it as proved that this legend meant 'God of the Gortynians.' And it is true that it would agree phonetically with what we know of the peculiarities of the Cretan dialect to regard ι here as representing an ϵ , β a F(cp. άβέλιος, Βολοέντιοι — "Αρια, τίριος), so that it might almost seem as though the form $\theta \in \delta$ were proved. Even the circumstance that this common word occurs elsewhere in Cretan inscriptions only in the form $\theta \epsilon \delta s$, and in $\theta_{i\delta s}$ ($K \rho \hat{\eta} \tau \epsilon s$), does not carry much weight with

altogether will have to be fully examined below. It is from this δ that we naturally arrive after a π at τ . This explanation is confirmed at all events by one case in which we have actual record of the intermediate pj, i.e. the Lith. spiáuju by the side of πτύω, discussed under No. 382, which led us to deduce a form $\sigma \pi j v - j \omega$. To these three examples a few others may be added. — πτέρνα 'heel' corresponds to the Goth. fairzna of like meaning, Skt. parshni-s, ChSl. plesna 'planta pedis' (Fick i3. 673). — πτίσσω 1 (πτισάνη, πτίσι-s, πτισμό-s) 'pound,' 'bruise' claims connexion with the Lat. pins-o. pins-io, pis-tor of like meaning and the Skt. pish (pinásh-mi). ChSl. pts-eno ἄλφιτον, ON. fis 'chaff,' so that it looks as if the root was pis. The only obstacle is in $\pi i \tau - \nu \rho o - \nu$ 'bran,' with its strange τ , which Pott W. ii. 2, 433, explains by supposing a metathesis from $\pi \tau \iota(\sigma)$ - $\nu \rho o - \nu$. If as I have maintained at length in the 'Gk. Verb' p. 241 f., πιέζω 'press' belongs to this root it must be an expansion of the unaltered rt. πις with the regular loss of the σ (* $\pi\iota\sigma$ - $\epsilon\zeta\omega$). — Whether $\pi\tau\dot{\nu}$ - σ - ν ' winnowing fan' (Att. $\pi \tau \epsilon - o - \nu$, probably for $\pi \tau \epsilon \epsilon - o - \nu$), belongs, as Pictet ii. 117 and Benfey conjecture, to the Skt. pū 'cleanse' (whence comes pávana-m 'sieve'), I cannot decide, especially as it would be possible to connect it with πτύω. — But the Cyprian ἐπτόκασεν, i. e. ἐπύκασεν, both interpreted by ἐκάλυ- $\psi \epsilon \nu$ in the sense of 'implicavit' (Mor. Schmidt 'Ztschr.' ix. 367), can hardly be explained except by the supposition of this insertion. It seemed tolerably probable that the rt. nuk with the meaning 'make firm' underlay the words collected under No. 384. Again πτύσσειν 'fold,' — and folding is a kind of making firm or secure, - is most probably related in spite of 499 its χ (πτυχή). Otherwise Fröhde in Bezzenb. 'Beitr.' i. 251.

It cannot be proved that $\kappa\tau$ comes from κ in the same manner. It is true that $\kappa\tau\epsilon i\nu\omega$ seems to bear to $\kappa\alpha i\nu\omega$ (No. 77 b) a relation similar to that of $\pi\tau\delta\lambda\iota s$ to $\pi\delta\lambda\iota s$. But the form with a simple κ is so much later, and of such rare occurrence, that we cannot venture to regard it as the primary

¹ The present πτίττω to which weight is attached by Ascoli 'Krit. Stud.' 356, has no sufficient authority. Cp. Lobeck 'Paralip.' 31, Meineke 'Comici' ii. 345 f.

form. Neither can I adduce any proof of the growth of $\gamma\delta$ from γ . On the other hand it is possible that the δ in $\beta\delta\epsilon\omega$, (No. 255) arose from j, since the analogies in the related languages lead us to a rt. $bjas = \beta\delta\epsilon s$.

But this kind of dentalism appears quite plainly in the combination $\chi\theta$. $\chi\theta\dot{\epsilon}s$ (No. 193) we compared to the Skt. hjas, giving ghjas as the primary form. In this case then the j has evidently developed a dental sound, which, by the influence of the preceding aspirate, was assimilated to it. Compare with this the view of Ascoli 'Krit. Stud.' p. 323. But the same j, for which we have historical evidence in this word, may be inferred with certainty in the st. ghamā, which we recognized under No. 183 to be the primary form of the Gk. yaua. If we assume with Grassmann 'Ztschr.' xii. 95, that here too a parasitic j associated itself with the gh, we arrive at ghjam, ghjamā and thence at $\chi\theta\sigma\nu$, $\chi\theta\alpha\mu\alpha\lambda\delta$ -s in the very same way in which we got from ghjas to $\chi\theta\dot{\epsilon}s$, perhaps also at the Skt. ksham, the j having become a sibilant and the sibilant having made the soft sound before it hard. It is true that this last development still needs closer scrutiny as a point of specially Sanskrit phonology.

In connexion with these, as I think, well established explanations, Kuhn (ut supra) ventures a conjecture which can hardly prove true. His opinion is that the cases of dentalism discussed above under (a) admit of this same explanation, that is, that 71-5 presupposes a stage kti-s between itself and ki-s. But such a form as kti-s is not to be found in any instance, nor is there a single Greek word in which κτ degenerated into τ . The word $\tau \dot{\nu} \pi o$ -s quoted by Kuhn has certainly nothing to do with κτύπο-ς; it appeared probable rather (No. 249) that the root of the former was stup. On the other hand the shifting of a guttural to a palatal and then on to a dental is much simpler and has plenty of analogies to support it. There would thus be no need of a τ developed by the side of the κ , in order to shift it into the class of the dentals. - Still less trust can be placed in the combinations of Ebel, who actually conjectures pt as a stage between k and t, that is, assumes $\pi \tau \iota s$, and $\pi \tau \epsilon$. In this he is clearly wrong, for the only opportunity 500 for k to develope into p was when a v introduced itself after the

k. We shall have to hold fast to the belief that k became on one side kv and then p, on the other kj and then τ .

3. ASPIRATION.

As we have seen that a great part of the phenomena of labialism and dentalism may be explained simply by assuming that a spirant was naturally appended to the explosive, we cannot be surprised to find that a still less articulate spirant, the simple spiritus asper, is attached in the same way, and that thus the original tenuis is changed into the corresponding aspirate. Indeed the change from the tenuis to the aspirate is one of the most common assumptions of etymologists. And this assumption certainly has in its favour the fact that we can prove the tendency to aspiration in the most various languages and periods of speech. Thus the Sanskrit hard aspirate has unmistakeably, at any rate in many cases, come from the tenuis (Grassmann 'Ztschr.' xii. 101). So too a part of the Teutonic shifting of the mutes, the change from k into h, from t into th, from p into f, rests upon aspiration, and this is partially repeated afterwards, at a later stage of the language. In Umbrian it is a recognized fact with certain combinations of sound (Aufr. u. Kirchh. i. 78); in the Persian languages this is especially the case before continuous sounds (Bopp 'Vgl. Gr.' i2. 69); in Ossetic (ib. 120) it is found widely prevalent, without any influence of the kind; in Old Irish it is most common between vowels (Schleicher 'Comp.3' 279). We are therefore already predisposed to assume the existence of this same phenomenon in Greek; and at any rate this has more analogies in its favour than the loss of the aspiration. But it is precisely assumptions which seem so unexceptionable which require especial caution. The Greek aspirates have, at least in the great majority of instances, come from soft aspirates, and hence in their origin they are far removed from the tenues; so that we must be very careful not to confuse these two groups of sounds with each other. The aspiration of a tenuis is generally to be regarded as an affection which makes its appearance on Greek soil at a comparatively late date, and which at least in many instances is brought about by the influence of neighbouring sounds: though,

starting from this point, and in part limited to certain dialects 501 and stages of the language, it does extend itself further, and in some few instances coincides with Sanskrit aspiration. The whole phenomenon has already been discussed by me in a comprehensive survey in 'Tempora und Modi' p. 196 f. Cp. Leo Meyer i. 51 and W. H. Roscher 'De aspiratione vulgari,' 'Studien' i. 2. 63 ff. This subject has been very carefully treated by Wilhelm von der Mühll in his doctoral dissertation 'Ueber die Aspiration der Tenues vor Nasalen und Liquidis im Zend und Griechischen' Leipz. 1875. I borrow from this discussion various details, without entering upon the physiological explanation, which in this paper has often been attempted, as it seems to me, with success.

It is best to start with those changes of sound which are specifically Greek. These as a rule lie outside the limits of our task, but here they cannot be passed over without disadvantage. Christ in his 'Lautlehre' p. 104 f. has collected only a small part of the facts which belong here; and even these are mixed up with much that is dubious. The aspirate is developed from the corresponding tenuis under two main conditions, i. e. first by the influence of a following liquid or nasal, and secondly by the influence of a preceding sibilant.

The operation of the first influence is the more familiar. Thus the stem $\beta \lambda \alpha \kappa$ (= $\mu \alpha \lambda$ - $\alpha \kappa$ No. 457) appears aspirated in $\beta\lambda\eta\chi$ - $\rho\delta$ -s, $\dot{\alpha}$ - $\beta\lambda\eta\chi$ - $\rho\delta$ -s, the stem $\lambda\epsilon\kappa$ (cp. $\lambda\iota\kappa\rho\iota\phi\delta$ s, where the ϕ prevents the aspiration) in $\lambda \epsilon_{\chi-\rho-\iota o-\varsigma}$ (No. 540), the stem $\tau \rho \iota$ (No. 246) in θρίναξ 'trident' by the side of τρίναξ: the suffix -τρο (ἄρο-τρο- ν = ara-tru-m) sometimes becomes - θ ρο ($\kappa\lambda\epsilon$ $\hat{\iota}$ - $\theta \rho o - \nu = claus - tru - m$, 'De nom. form.' p. 38), $\pi \epsilon \nu - \iota - \chi \rho \delta - \varsigma$ may be compared in its suffix with lud-i-cru-s (Leo Meyer 'Vgl. Gr.' ii. 506). — By the side of τρόνα άγάλματα ή ράμματα άνθινα (Hes. see above at No. 239) we find the Homeric θρόνα Χ 441, έν δὲ θρόνα ποικίλ' ἔπασσεν; (Hesych. ἄνθη καὶ τὰ ἐκ χρωμάτων ποικίλματα). The same word occurs also in Alexandrian writers in the sense of φάρμακα 'herbs,' and may certainly be compared with Skt, tina-s 'grass,' 'herb,' 'stalk,' Goth. thaurnu-s, ChSl. trunu 'thorn.' C. Wustmann 'Rhein. Mus.' xxiii. 238, where ποικιλό-θ pithet of Aphrodite is well derived from this v is

identical with τρυγοναν 'to knock gently at the door;' the preposition $\pi \rho \delta$, like the Persian fra, has aspirated its labial in the post-Homeric forms φροῦδο-ς (No. 281, cp. πρὸ ὁδοῦ ἐγένοντο Δ 382), φροίμιο-ν sporadically from the time of Aeschylus beside προ-οίμιο-ν, φρουρό-ς, φρουρά (No. 501) have all aspirated their labial. — Also in $\tau \epsilon \phi - \rho \sigma s$ ashen grey, $\tau \epsilon \phi - \rho \alpha$ 'ashes' the aspirate is explained from the influence of the p, 502 for we cannot doubt that these words are akin to Skt. tap 'to be warm, 'to warm,' táp-as 'heat,' Lat. tep-eo, tep-idu-s, AS. thef-jan, 'aestuare,' OHG. damf 'smoke,' 'vapour,' ChSl. top-lit. 'warm.' The same root experiences the same affection in the OPers. taf-e-dhra 'a melting,' taf-nu 'heat.' - Before \(\lambda \) we find κ aspirated in ἀνδράχ-λη from the st. ἀνθρακ (ἄνθραξ 'coal'), τ in $\nu\alpha\hat{v}$ - $\sigma\theta\lambda o$ - ν (No. 430), $\nu\alpha v$ - $\sigma\theta\lambda \acute{o}$ - ω , which must certainly be referred to $\nu\alpha\nu$ - $\sigma\tau$ 0 λ 0- ν , and in the suffix - $\theta\lambda$ 0 ($\theta\epsilon\mu\epsilon$ - $\theta\lambda$ 0- ν), which we cannot separate from $-\theta \rho o$, $-\tau \rho o$ (cp. $\theta \dot{\nu} \rho \epsilon - \tau \rho o - \nu$), π in $\sigma \iota \phi \lambda \dot{o} - s$, 'misshapen,' 'weak,' if we are right in identifying it with σιπαλό-s quoted by the grammarians with similar meanings (Lobeck 'Prolegg.' 140, 'El.' i. 225). Fick i3. 474 attractively compares αχ-λύ-ς 'darkness,' 'mist,' with ακαρο-ν' τυφλόν Hesych. and Lat. aquilu-s 'dusky' ('color subfuscus' Paul. 'Epit.' 22), to which are added aquila and Aquilo. Whether ἄγχρας μύωψ Λοκροί belongs here seems to me doubtful, for it might easily be connected with $\dot{\alpha}_{yyo}\hat{v}$. — Aspiration before ν meets us in άράχ-νη from rt. άρκ (No. 489), λύχ-νο-s from rt. λυκ (No. 88) in the diminutives in -ιχνη, -ιχνιο-ν, -υχνιο-ν, which go back to the shorter κ (κύλιξ κυλίχνη, πελίκη πελίχνη, πόλις πολίχνιο-ν, cp. Schwabe 'De deminutivis' pp. 63, 73), in πέταχνο-ν, with the older form πέτακνον still preserved, explained in Hesych, by ποτήριον έκπέταλον, in μυσαχνό-ς, μόλυχνο-ς (Hesych.) for which we may conjecture similar suffixes, in ixvos, if we were right in referring this to the rt. Fix (No. 17), in $\tau \dot{\epsilon}_{\chi}$ - $\nu \eta$, the root of which (No. 235) offers however other aspirated forms, in πάθνη (Roscher 'Stud.' i. 2, 102), the true Attic form of which is $\phi \acute{a}\tau - \nu \eta$ 'crib,' with transposed aspiration, but which we must still refer to πατ-έο-μαι (No. 350), in ἄφνω, ἐξ-αίφνης by the side of $\dot{\epsilon}\xi\alpha\pi\dot{\nu}\eta s$ with epenthesis of an iota (p. 668). αχ-νη 'chaff,' 'foam' is connected by Fick i3. 475 with the Goth. ahana (f.) 'chaff.' Whether we should take ak 'pierce'

(No. 2) as the root, and add ακ-ανο-s 'goad' with other words, is less certain to me. - xvovs 'dust,' 'foam,' which Lobeck 'Rhemat.' 29 and Pott W. i. 673 connect with κνάω, κόνι-ς (cf. cini-s) is doubtful. For the ON. gnu-a 'scrape,' 'rub away' points to a rt. ghnu (Fick i3. 585), to which xvv regularly corresponds. And for κόνι-s (ut supra 518) the Skt. kána-s 'corn.' 'meal' is important. — Before μ the κ of the rt. $\pi \lambda \epsilon \kappa$ (No. 103) is aspirated in $\pi\lambda \circ \chi - \mu \circ - \varsigma$, the original κ of the root of $\pi\rho\tilde{\alpha}\sigma\sigma\omega$ (No. 358) in $\pi \rho \hat{\eta} \chi - \mu \alpha$ in an inscription from Chios (Cauer 'Delectus' No. 133), the κ of the rt. ἀκ (No. 2) in ἀκ-αχ-μένο-ς and in αίχ-μή; the latter word however is probably for άκιμη, and, like τέφρα quoted above, is to be taken as an adjective which has become a substantive. ίωχ-μό-ς 'din of battle' is equivalent to ἰωκή; λαχ-μό-s is given from Antimachus in the 'E. M.' in the meaning λακτισμός, and hence 503 belongs to No. 534.

The 'aspirating influence' of a preceding s on a following tenuis has been investigated comprehensively by Kuhn in vols. iii. and iv. of his 'Zeitschrift,' in a series of papers, which we have repeatedly used already. (Cp. Grassmann 'Ztschr.' xii. 96. An admirable attempt to explain this phenomenon physiologically is made by Ascoli 'Fonol.' 194, 'Lautl.' 164.) Within the limits of Greek the following words are certain examples of such an affection, which becomes general partly only in the Attic period, partly in still later stages of the language, and which is proved by the occurrence of unaspirated by-forms: σχάζω¹, σχέδ-ος, σχεδ-ία, σχενδύλη with rt. σκεδ No. 294, σχίζω with rt. σκιδ No. 295, σχελίς 'leg,' Attic by the side of σκελίς and σκέλος, σχέραφο-ς 'insult,' with σκέραφο-ς, ἀσφάλαξ quoted in the 'E. M.' as a by-form of ἀσπάλαξ (No. 106), ἀσφάραγο-ς 'asparagus' by the side of ἀσπάραγο-ς =Zd. cparegha 'prong' (ModPers. a-sparag Justi 302), Lith. spurga-s (Nesselm.) 'shoot,' 'eye' ('bud') of a tree (Fick i3. 833),

¹ Το σχάζω we added also the intrans. χάζω 'separate myself,' 'retire.' Cp. συγχάσαι' συγχωρῆσαι Hesych. Along with this go the Homeric aor. κεκάδ-ο-ντο = ἐχάσαντο which has preserved the tenuis, and the pluperf. ἐ-κεκήδ-ει' ὑπεκεχωρήκει (Hesych.) which is probably wrongly challenged by Mor. Schmidt, together with the Lat. cō-do (cp. Buttm. 'A. Gr.' ii². 322).

a word possibly borrowed from the Persian, λίσφο-ς (No. 544)

with $\lambda i \sigma \pi o$ -s, where π , if we explained it rightly on p. 367. can only claim relative priority, as is true also of the late σφόγγο-s and the Attic σπόγγο-s (No. 575), but Attic σφυρά-s 'dung' with Ion. σπυρά-ς and σπύραθο-ς, σφυρί-ς 'basket' in Hippocrates and in a late inscription (Steph. 'Thes.') with σπυρί-ς (cp. Lat. spor-ta, σπείρα, σπάρτα, Lith. spar-ta-s 'band' Fick i3, 832), σφονδύλη the name of an insect in Aristotle with the variant σπονδύλη. So too σφόνδυλος 'turning.' 'joint,' with the variant σπόνδυλος (cp. Bonitz 'Ind. Aristotelicus'). - At an earlier period this same phenomenon made its appearance in the rt. σφαδ (No. 296), with which we compared Skt. spand, in σφήξ (No. 580), if we were right in regarding the $\sigma\phi$ of this word as equivalent to the sp of vespa. perhaps in σφήν 'wedge,' if Kuhn 'Ztschr.' iv. 15 isright in connecting this with the German Spahn 'chip,' 'splinter' (Pott W. 635). The same is probably the case with σθέν-ω 'am strong' and σθένος 'strength' with its derivatives (σθεν-αρό-ς, σθέν-ιο-ς. $\Sigma\theta\dot{\epsilon}\nu$ - $\epsilon\lambda_0$ -s). For as we see that from the rt. $\sigma\tau\alpha$ (Nos. 216, 228) various forms (cp. also No. 222) are derived with the meaning of firmness, we may probably assume for these too the same 504 notion of 'standing' as their basis, and thus we gain for $\sigma\theta\epsilon\nu$ -os the fundamental notion of 'stable strength,' as distinguished from ρώμη (No. 517) 'strength of impetus.' According to this view Greek coincides in the case of this root with Sanskrit. which shows throughout the aspirated from sthā. — The θ of $\theta \acute{a}\mu \beta$ -os beside $\tau \acute{a}\phi$ o-s we explained under No. 233 from the influence of the σ subsequently lost (rt. stabh, Gk. $\theta \alpha \phi$). The aspiration also corresponds in the two languages in the case of the rt. sphal=Gk.σφαλ (No. 558); and also in σφαδ mentioned already. On the other hand in other roots and words, especially in the rt. sthag = στες (No. 155), in asthί = οστέον (No. 213), in sphar = $\sigma\pi\alpha\rho$ (No. 389) the Indian aspirate is isolated. - We must find in a sibilant once present, but afterwards lost, the source of the aspiration of \$\phi\alpha\nu_0-s\$ by the side of the older πανο-s 'torch,' if the combinations of Roscher 'Stud.' i. 2, 72 ff. are correct. He follows Kuhn in connecting these words with $\sigma\phi\dot{\eta}\nu$ and with the German Spahn.

Besides these two main influences on the aspiration of a

tenuis we may conjecturally ascribe also to a preceding nasal a tendency in some cases to change the tenuis into the aspirate. The attempt to explain this process from the physiology of speech has been made by von der Mühll on p. 47 of the work mentioned above on p. 501. Here belong eyx-os, where derivation from the rt. ακ and affinity with ακ-ων (No. 2) is the more probable. that in other instances also groups of consonants containing a nasal change α into ε, πένθος, βένθος, φέγγος; κόγχη (No. 65), the Skt. correlate of which, cankhá-s, shows the hard aspirate, which we assume to be almost always of later origin; λαγχάνω, if we follow Fick i3. 748 and Van. 827 in comparing the ChSl. po-lač-iti (by-form po-lučiti) Lith. per-lenki-s 'duty' OPruss. per-lank-ai 'it is due.' The aspiration must in that case have been transferred from the forms with a nasal to $\lambda \alpha \chi \epsilon \hat{\imath} \nu$, etc. ρέγχ-ω by the side of ρέγκ-ω 'snore' and ρύγχ-os, a word which, according to Athenaeus iii. 95, means κυρίως 'the swine's snout,' belonging either to ρέγκειν or as Fröhde 'Ztschr.' xxii. 267 assumes, to ὀρύσσειν, σπινθήρ 'spark,' which is seen to be aspirated by a comparison with its diminutive scintilla (otherwise Fick i3. 834), ταν-θαρ-ίζειν 'tremble,' 'dangle,' by the side of ταρ-ταρ-ίζειν 'tremble with cold,' 'chatter,' certainly from the rt. TEP, the manifold expansions of which are discussed under rt. τρες No. 244, δμφ-ή 'voice,' if it belongs to the rt. Fem (for Fek) No. 620, though certainly the word in Homer does not admit the F. Fick compares δμφή with the Lith. ambiti 'scold' (i3. 493), which is by no means self-505 evident. To these we may further add the Boeotian termination of the 3 plur, in $-\nu\theta_i$ for $-\nu\tau_i$ (mentioned above p. 495), and the diminutive forms in $\nu\theta$ there compared. — To these belongs also κολοκύνθη 'pumpkin,' while κολοκύντη was regarded as the better, the genuinely Attic form ('Phrynichus' ed. Lobeck p. 437). We can also recognize the aspirating influence of the nasal in other isolated dialectic forms: σκάνθαν κράββατον, which Salmasius compared with ἀσκάντην, of equivalent meaning, Βερέκυνθος, a Cretan mountain, by the side of Βερέκυντος in Phrygia.

A different explanation of the aspirate which appears by the side of a tenuis has been sought in a digamma following, and especially the combination πF is supposed to have passed

into \(\phi\). More than any one Benfey 'Ztschr.' vii. 52 gives this explanation with great positiveness, and it is approved by Leo Meyer i. 51. The former refers βλέφ-αρο-ν to βλεπ-Fapo- ν , $\sigma \circ \phi - \delta - s$ (No. 628) to $\sigma \circ \pi - Fo - s$. But the assumed form with a v does not, either in this case or in any other of the instances discussed by him, actually occur in any of the kindred languages. There is certainly in Sanskrit a suffix -vara, which is used occasionally for primary nominal formation (Lindner p. 109), and more numerous analogies may also be quoted (ib. 105) for the suffix -Fo, e. g. ūrdh-vá-s 'straight,' tak-vá-s 'quick' (cp. caed-uu-s, cur-vu-s Corssen i². 313). But we cannot speak of any special agreement. It is only where phonetic traces are to be found that this explanation becomes more probable, as in ὄφι-s (No. 627), which in Homer and Hipponax is scanned as a trochee, and hence must have been pronounced almost as οπφι-s. -vi is in Sanskrit a suffix which forms adjectives from verbal stems, occurring e.g. in gagr-vi-s watchful' (Lindner p. 109). Thus we can suppose a form *ak-vi-s 'seeing,' from which οκ-Fi-s, οπ-Fi-s came. — I have already combated (in 'Tempora und Modi' p. 194 ff.) the view that the Greek aspirated perfect goes back to a formation corresponding to the Latin form in -vi and that so $\pi \in \pi \lambda \in \chi - \alpha$ is for $\pi \in \pi \lambda \in \kappa$ -Fa. I may now refer to the 'Gk. Verb' p. 403 ff. The isolated form ἐδήδο Γα in the strange inscription 'C. I. N.' 15 cannot possibly determine the question. In this instance F is probably only the sign of the transition-sound, naturally developed between the o, (which is to be compared with the ϵ of $\dot{\eta}\delta - \dot{\epsilon} - \sigma\theta\eta - \nu$, $\dot{\epsilon}\delta-\dot{\eta}\delta-\epsilon-\sigma\mu\alpha\iota$, and which recurs in the Homeric $\dot{\epsilon}\delta-\dot{\eta}\delta-o-\tau\alpha\iota$,) and the following vowel, springing as it were from the former, like the v of the Skt. ba- $bh\hat{u}$ -v-a. This is how in Italian the name Joannes became Gio-v-anni. Cp. below p. 586. This post-506 Homeric phenomenon, which is parallel to the Homeric aspiration before the middle termination -arai, is evidently a

purely Greek phonetic affection (cp. 'Gk. Verb' p. 418).

We shall probably be compelled to recognize a like aspiration, which cannot be explained from special conditions, in other cases besides, where it is partly of older date than in the instances hitherto discussed. In my paper on the aspirates ('Ztschr.' ii. 336) I called attention to the fact that the Greek aspirate sometimes corresponds to the hard aspirate of Sanskrit; and I distinguished two cases, the one in which the aspirate in Sanskrit as well as in Greek is of later origin (hysterogen), i.e. originating in the tenuis, the other when on the contrary the aspirate is original in both, but in both is raised from the stage of the soft sound to that of the hard. We discussed these relations on pp. 82 and 422. Of course the other kindred languages, or any by-forms that may exist in the same language must decide what is the character of the sound in the particular instance. The hard aspirate of Greek and Sanskrit in the st. ovux and nakha (No. 447) was of the second kind. Under No. 412 we regarded the ph of the rt. phull in the same way. We should have also to add to these the agreement of the form xá-os (i.e. xaf-os), discussed under No. 179, with the Skt. kha-m 'cavity,' 'atmosphere,' an instance which Bopp 'Gl.,' and Aufrecht 'Ztschr.' ii. 148 have pointed out, and which has also been recognized by Benfey in his complete discussion of these words and of others connected with them 'Ztschr.' viii. 187 ff. The kindred languages offer no forms but such as point back to an original gh. Hence Skt. kha-m is also hardened for gha-m. — The Skt. kh is undoubtedly of the former kind in some of the words just discussed, in which, like the Greek x, it arose from k through the influence of a sibilant; e.g. in the rt. skhad (No. 294); and the same is the case with Skt. th and ph, which appear under the like conditions, e.g. in rt. sthā by the side of σθένος, sphal by the side of σφάλλω (No. 558).— Elsewhere indeed we may have some doubts. It was not however without reason, that we just above placed κόγχη, κόγχο-ς = Skt. cankhá-s (No. 65) among the examples of aspiration originating in later times. — The word χαλῖνό-ς discussed under No. 561, and compared with the Skt. khalīna-s, was left doubtful. — We found instances on p. 278 of θ , corresponding to a Sanskrit th, but proved by other kindred forms to be a metamorphosed t, in the words $\pi\lambda\dot{\alpha}\theta$ -avo- ν , $\pi\lambda\alpha\theta$ - $\dot{\alpha}\nu\eta$ and Skt. prath, prthú-s (No. 367 b) by the side of πλατύ-s, πλάτ-ανο-ς Lith. platit-s, and also in μόθ-ο-ς 'turmoil' (No. 476), Skt. manth-á-s, ChSl. met-a.

On the other hand the aspirate, most commonly the labial,

507 is also found confined to Greek. Thus in the case of the rt. δεκ (No. 11) we saw above that the unaspirated form, which occurs among the Ionians, Dorians, and Aeolians (Ahrens 'Dor.' 82), is the original, the Attic δεχ a form of later origin. Even the Attic writers preserved the older x in some words, the connexion of which with δέχεσθαι can hardly have been clearly present to the consciousness of those who used them, in δοκ-ό-ς 'beam,' δοκ-άνη 'fork,' but also in δωροδόκος. πανδόκος with its derivatives, perhaps also in δεκών ὁ δεκαζόμενος and δεκάζειν 'bribe,' which is probably best explained as a frequentative of δέχεσθαι in the sense of 'to welcome to one's house,' 'to entertain,' 'to treat' (cp. ἀκουάζεσθαι, μιγάζεσθαι); the derivation from δέκα (to undertake to distribute by tens), ascribed in the 'E. M.' 254, 29 to Eratosthenes. sounds extremely wild. - The rt. TUK preserved this, its original, form especially in the Ionic dialect (τε-τύκ-ο-ντο, Τεῦκpo-s), as we saw on No. 235. But here too the Attic writers were not without forms with the unaspirated sound: τύκ-ο-ς, by the side of τυγχάνω, τεύχω. Who will find any particular explanation of the aspirate here? These are just the forms on which the view is especially based that the aspirated perfect arose from the unaspirated merely by phonetic affection. Perhaps the perfect-like present ofx-o-uar, characterized by the diphthong of the perfect, belongs here, a form which Sonne 'Epilegomena' p. 62 has already compared with the Goth. perfect vaik 'cessi,' without wishing to identify the two words. Although we cannot prove a F here, we may probably connect the verb with the rt. Fix (No. 17), and the meaning I have given way,' 'disappeared' suits completely. The labial spirant might vanish before o sooner than before other vowels, as Christ p. 261 conjectures. - To these cases of aspiration belongs also the word $\tau \alpha \chi - \dot{\nu} s$. Skt. táku-s. In the 'Pet. Dict.' the Skt. adjective is explained by 'hurrying.' The root is tak (No. 231) 'shoot,' 'tumble,' whence tak-van 'bird,' and it is completely established in its high antiquity by Lith. tek-u 'flow,' 'run,' tek-ina-s 'running fast,' ChSl. tek-ŭ δρόμος. tok-ŭ ρεθμα (Bohem. roz-tok 'issue,' 'mouth') OIr. techim 'fugio.' In Zend this root is very richly represented; tak-a 'running,' takh-ma, also with aspiration, 'quick,' 'strong,' tac

'run,' 'flow,' tañc-ista (cp. τάχ-στο-s) 'very strong.' Grassmann 'Ztschr.' xii. 104 justly calls attention to the fact, that the transposition of the aspiration to the beginning of the word, which we perceive in $\theta \acute{a}\sigma \sigma \omega \nu$, when contrasted with τεύξομαι, points to a high age for the internal aspiration. — We conjectured on p. 498 that πτύσσω belongs to the rt. πυκ, and that hence $\pi \tau \nu \chi \dot{\eta}$ similarly only became aspirated at a later date. - The Siceliot κάρχαι = καρκίνοι was men- 508 tioned under No. 40. — Here belongs also payía (Ion. pnyín) breakers' from the rt. Fpak, as will be seen on p. 542. The initial χ of χόρ-ιο-ν 'skin,' 'afterbirth,' corresponds to the c of the Latin coriu-m, with which Kuhn 'Ztschr.' iv. 14 justly compares it, arguing also from the Lith. skur-d 'skin,' 'leather' — cp. scor-tu-m — to an initial sibilant, which would help to explain the aspiration. Cp. No. 53, and Fick ii3. 272.

There is an example of a θ which has arisen from τ in $\kappa\lambda\delta\theta\omega$, the connexion of which with Skt. rt. krat 'spin' (kṛ-ná-t-mi) seemed to us probable under No. 42 a. As the formation of the Indic present points to a nasal, we may perhaps with Joh. Schmidt assume that $\kappa\lambda\delta\theta\omega$ was developed directly from $*\kappa\lambda\omega\theta\omega$, and that the aspiration was based upon the influence of a nasal, subsequently disappearing, as discussed above on p. 504.

Much more commonly does ϕ appear as against a primary p. It will be expedient here to distinguish cases where it is initial from those where it occurs in the middle of a word. — The derivation of $\phi\iota$ - $\alpha\lambda\eta$ from the rt. $\pi\iota$ (No. 371), given even by ancient authorities ('E. M.'), has been frequently repeated in modern days, especially by Legerlotz 'Ztschr.' vii. 308, who is followed by Christ p. 186. Both refer $\phi\iota\alpha\lambda\eta$ to $\pi\iota F\alpha\lambda\eta$, and take it as a proof of the theory, often repeated but utterly incapable of proof, that a digamma suppressed in one syllable, produces aspiration in the syllable antecedent. But the etymology asserted for $\phi\iota\alpha\lambda\eta$ breaks down owing to the fact that the word always means in Homer, not a drinking-vessel, but a kind of kettle, which is placed upon the fire — hence $\alpha\pi\nu\rho\omega\tau\sigma$ s of one not yet used Ψ 270 — also used as a jar for ashes (ib. 243, 253). A

taught this, for he added his διπλη to the verse first quoted for this reason, ότι φιάλην οὐ τὸ παρ' ἡμῖν (the Greeks of later times) ποτήριον, άλλὰ γένος τι λέβητος έκπέταλον ('Aristonicus' ed. Friedländer p. 330); compare also Döderlein 'Gloss.' 936, who refers to the agricultural expression φιαλοῦν βόθρον, to 'kettle out,' as it were, i.e. to hollow out, a ditch in a round shape. In Xenophanes Fr. 1, 3 (Bergk) φιάλη means a vessel for ointment. It is in Pindar first that we meet with οἰνοδόκος φιάλα (e.g. Isthm. 6. 40). Max Müller 'Essays' iv. tries to support the derivation from rt. pi by showing that Skt. patra-m beside the etymological meaning of poculu-m, has also the wider meaning of 'vessel,' 'utensil.' But the strange thing about φιάλη is that this presumed primary meaning is completely foreign to the earliest language. - The comparison of φιαρό-s with Skt. pīvará-s 'fat.' is in no better case. Greek shows no inclination whatever to the aspiration of the π, as is shown by the forms πιαρό-ς, πίαρ. 509 πίων, collected under No. 363. Besides, the meaning of φιαρό-s, which in the Alexandrian poets, the only writers who know the word, is an epithet of the dawn, and means always only 'shining,' 'gleaming,' has absolutely nothing to do with πιαρό-s, which never means anything but 'fat,' 'greasy.' In Theorr. xi. 21 the reading φιαρωτέρα δμφακος ώμης, quoted by M. Müller, is by no means certain. — Pott's connexion (i1. 269, W. i. 1205) of φλύ-ω, φλεύ-ω in the compound περιφλύων, περιφλεύειν 'singe,' with Skt. plush and prush 'burn,' is exposed to objections of various kinds. The Skt. rt. pru-sh must be certainly regarded as an expansion of the shorter stems discussed under No. 378 and 385, while on No. 415 we inferred a Greek rt. φρυ, connected with Goth. brinnan. Lobeck 'Rhem.' 24 is inclined on the contrary to connect φλύ-ω, when referring to 'fire,' with the forms discussed under No. 412, as in fact the ideas of 'flaming fire' and of 'gushing exuberant fulness' often pass into each other in language. -On the other hand initial aspiration is well established in:

652. φῦ-σα blast, bellows, bladder, φυσά-ω blow, φυσιά-ω snort, pant, φυσαλί-ς, φυσαλλί-ς bladder, bubble, φύσκα bladder, blister, weal, φύσκη intestine, sausage, φύσκ-ων pot-belly.

Skt. pupphu-sa-s lung, pupphu-la-s blowing, phu-t blow.

Lat. pūs-ula, pus-tula blister.

Lith. pús-ti blow, puff, pus-le bladder.

Pott W. ii. 2, 445, Benf. i. 551 ff. - In spite of Pott's protest I start from a rt. spu, the s of which produced aspiration in Skt. and Greek, and then fell off. This rt. spu, Gk. ov, from which ov-oiγναθο-s, 'with puffed cheeks,' is immediately formed, takes an expanding s, which meets us also in the Latin forms. \$\phi^2-\sigma a\$ must have come from *φυσ-ja, *φυσσα (cp. κνίσα beside κνίσσα). Cp. Misteli 'Ztschr.' xix. 121. The development of meaning is simple, and almost identical with that of the German blasen and its belongings. As 'bladder,' 'blister' (Blase), and 'puff up,' 'swell' (blähen) are connected with 'blow' (blasen) in so many languages, I regard the explanation of Lat. pūsula, pustula here given, as more probable than that from the rt. pu (No. 383) maintained by Corssen 'Beitr.' 460. - Very differently Pictet ii. 143, who, having in view the Skt. bhástrā 'bellows,' starts from a rt. bhas. But the u is too firmly attached to all the forms here quoted, and a long u especially is too rarely developed from an a in Greek, to make this explanation probable. ποιφύσσω 'blow,' 'pant,' as is shown by ποί-φυγ-μα (Aesch.) and other forms, rests upon a root expanded by a guttural, which Pott W. i. 1123 compares with ON. fiuka 'vento ferri.' - The original rt. spu returns with metathesis in the words ψύχω, ψυχή to be mentioned on p. 702.

A $\phi = \pi$ appears in the middle of a word in:

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653. ἄφ-ενος, ἄφ-νος riches, ἀφνε-ιό-ς rich, ἀφν-ύ-ω, ἀφνύν-ω (Hesych.) enrich.

Skt. áp-nas revenue, possession, ápnas-vān profitable, apnah-sthá-s possessor.

Lat. op-s, op-es, opu-lentu-s, in-ops, cop-ia (=co-op-ia). The ε of ἄφενος, as Buttmann 'Lexil.' i. 46 f. already conjectured, is no original element of the stem, for which the verb, explained in Hesych. by ὀλβίζω, is of especial importance (cp. τέμ-ε-νος). We may consequently here ascribe to the ν the power of aspiration, as in the instances quoted on p. 502. The Lithuanian άpsta-s 'crowd,' apstù-s 'richly' offer themselves unsought. — To the derived words belongs further εὐ-ηφενέ-ων (Hesych. εὐπλουτούντων) which Aristoph. Byz. and Rhianus read in Ψ 81 for εὐ-η-γενέ-ων, not without reason (Nauck 'Aristoph. Byz.' p. 50), and which I. Bekker has received into his text. The proper name Εὐηφένης is found in a Thasian inscription published by J. Miller ('Revue Archéol.' 1865 p. 141). Th of ἄφενος is discussed by Aufrecht 'Ztschr.' ii. 147 f., wh

Schweizer however (Höfer's 'Ztschr.' ii. 108), in supposing abh to be the root. But the Skt. ábh-va-s, from which this root is deduced, is according to the 'Pet. Dict.' a compound of a(n) and rt. bhū 'be,' with the meaning 'monstrous,' 'dismal,' in the neuter, 'monstrous size,' 'might,' which is far removed from our words. And the Gothic words ab-r-s ίσχυρός, abra-ba σφόδρα with all their kin contain only the notion of strength which reminds us of open-os, doenho [Joh. Schmidt 'Ztschr.' xxii. 327]; so that we cannot, I think, allow the connexion of the words here quoted to be annulled because of them. - On the other hand there are still some Greek words with nasalization and an o belonging here (Pictet ii. 398), though for the most part occurring only as glosses, and therefore to be treated with caution: with an old π there are όμπ-νη τροφή, εὐδαιμονία, Δημήτηρ 'Ομπνία (cp. alma), ομπνεύειν αὐξάνειν, with φ the equivalent ομφύνειν, and many more of various kinds, partly dubious derivatives. Other combinations with regard to the rt. ap and the words akin in 'Studien' i. 1. 261. — To the Latin word of this group Corssen 'Ital, Sprachk.' 147 wishes to add also opi-mu-s. - Perhaps the OIr. ane 'divitiae' (acc. plur. ánu, a u-stem Z2. 240) belongs here.

 $\dot{a}\lambda\epsilon\iota\phi-\omega$ has been discussed under the rt. $\lambda\iota\pi$ (No. 340). It might be difficult to prove any special occasion for aspiration in this verbal form, which is shown to be primitive by its 'addition of sound,' in the noun-forms $\dot{a}\lambda\epsilon\iota\phi-\alpha\rho$, $\dot{a}\lambda o\iota\phi-\dot{\eta}$.

 $\dot{\alpha}\pi$ - $\alpha\phi$ - $\dot{\phi}$ - \dot äπτω 'tie,' 'bind,' 'seize,' in the middle, 'seize on,' 'take part in,' άφ-ή 'tactus,' 'union,' ἀφάσσω 'feel ' (by-form άφασσάω), ἀπ-αφ-ίσκω 'deceive,' show the aspirate, while $\dot{\alpha}\pi$ - $\dot{\eta}\nu\eta$ 'team,' $\dot{\eta}\pi$ - $\dot{\alpha}$ -o- $\mu\alpha\iota$ 'mend' ($\dot{\eta}\pi\eta$ - $\tau\dot{\eta}$ -s, $\dot{\eta}\pi\dot{\eta}$ - $\tau\rho\iota\alpha$) and $\dot{\alpha}\pi$ - $\dot{\alpha}$ - $\tau\eta$, perhaps also $\dot{\eta}\pi\iota_0$ -s in the sense of 'friendly.' 'accessible,' have retained the π unaltered. It is impossible to decide in the case of αμμα and αψί-ς 'fastening,' 'vaulting.' Lat. ap-ĕ-re 'comprehendere vinculo' Paul. 'Ep.' 18, 511 to which belong ap-tu-s and ap-i-sci, and with which Skt. ap 'attain to,' 'arrive at,' is also related, contains the original final letter. Cp. Fick i3, 16 and my 'Commentatio de forma $\dot{\epsilon}\dot{a}\phi\theta\eta$ ' L. 1870. For the change of the breathing at the beginning cp. p. 687. Whether Lat. a-mentu-m 'thong' belongs here has been made very doubtful by the glossematic form admentum established by Loewe 'Prodr.' 367 ff.

βλέφ-αρο-ν by the side of rt. βλεπ has been touched upon

on p. 505. γνίφων-ες 'niggards' and σκνιποί will have to be discussed on p. 703.

 $\gamma\rho\hat{\iota}\phi$ os, interchanging with $\gamma\rho\hat{\iota}\pi$ o-s, 'rush-net' — for both forms are about equally well authenticated — has no quite certain etymology. The most probable comparison, mentioned under No. 516, seems to me that given by Pott i¹. 140, and also approved by Benfey i. 211, viz. with $\dot{\rho}\dot{\iota}\psi$ (gen. $\dot{\rho}\bar{\iota}\pi$ - $\dot{\delta}s$) and Lat. scirp-u-s, OHG. sciluf. γ as a weakening of $\sigma\kappa$ will be discussed on p. 703. If this comparison is correct, it establishes the priority of the π and we have a new case of aspiration.

The form καφ by the side of καπ, καπ-ύ-ω has been already quoted under No. 36. Besides $\kappa\epsilon$ -καφ-η-ώς, the perfect $\kappa\epsilon$ -κηφ- ϵ · $\tau\epsilon$ θνηκ ϵ (properly spiravit) preserved by Hesych., also belongs here; Lobeck 'Rhem.' 46 well compared it with ϵ γ-κάπτ ϵ ι, i.e. ϵ κ-κάπτ ϵ ι ϵ κπν ϵ ι. The perfect, as the tense of completed action, expresses without the help of the preposition ϵ κ, what the present-stem only succeeds in expressing by means of it.

 $\kappa \epsilon \phi - a \lambda \dot{\eta}$ we learnt on No. 54 to recognize as the correlate of the Skt. $kap \dot{a}la$ -s. In this case we may notice the medial in the dialectic forms $\kappa \epsilon \beta \dot{a} \lambda \eta$, $\kappa \dot{\epsilon} \beta \lambda \eta$, to which we shall recur on p. 539.

κοῦφο-ς 'light,' in the sense of levis, is compared by Leo Meyer (i. 51) with Skt. kap-alá-s (rt. kamp) 'moveable,' 'light-thoughted,' 'frivolous.' Hesych. furnishes the by-form κεμπός, which is explained by κοῦφος. Cp. κεμφάς ἔλαφος. Joh. Schmidt 'Vocal.' i. 115.

κωφ-ό-s in its relation to rt. κοπ, and especially to Goth. hamf-s 'mutilated,' has been discussed under No. 68 b.

 $\lambda \alpha \phi$ -ύσσω we found ourselves obliged at No. 536 b to place with $\lambda \acute{a}\pi \tau \omega$ rt. $\lambda \alpha \pi$.

πομφό-s 'blister,' 'swelling,' πομφόλυξ 'bubble,' are well grouped by Fick i³. 661 with Skt. pippala-s 'berry,' 'nipple,' Lat. papula 'blister,' papilla 'nipple,' 'small swelling,' Lith. pápa-s 'nipple,' 'breast.' Add also ChSl. papu 'umbilicus.' The Lith. verb pamp-ti 'swell out,' 'grow fat,' contains the common idea. Lat. pamp-inu-s 'shoot of the vine' might also belong here. Many of these words have been already quoted by Pott i¹. 109, 193.

 $\dot{\rho}a\phi\dot{\nu}$ -s by the side of $\dot{\rho}\dot{a}\pi\nu$ -s under No. 511.

512 σαφ-ής and σοφ-ό-ς by the side of sap-io I formerly placed under No. 628, now I can only say that the two words are certainly connected (Fick i3. 993). We have a form phonetically remarkable in ἐπίσσοφος, the name of an office which Boeckh ('C. I.' ii. p. 371) compares with that of the youder's or ἀντιγραφεύς, on the Theraic inscription C. I. G. 2448, 6. 1. 30 ff. The double σ doubtless points to σF , and in any case justifies the retention of the sibilant before the vowel. From a rt. σ faπ we could easily explain also σύφαξ (' must'). συφακίζειν (ὀπωρίζειν), ά-σύφ-ηλο-ς, Σί-συφο-ς (cp. Τί-τυρο-ς. $Ti-\theta\omega\nu\delta$ -s, $\mu i-\mu_0$ -s) and $\sigma \epsilon$ - $\sigma \nu\phi$ os $\pi\alpha\nu$ o ν o ν pyos (Hesveh). To the Lat. sap-io without aspiration is attached OHG. ant-seffan ('intellegere'), and also probably (cp. Pauli 'Ztschr.' xviii. 12) $\sigma \alpha \pi - \rho \delta - s$ 'rotten,' $\sigma \eta \pi - \epsilon \iota \nu$ 'rot' ($\sigma \epsilon - \sigma \eta \pi - \epsilon$, $\sigma \alpha \pi - \hat{\eta} - \nu \alpha \iota$). From the primary notion 'taste' comes both the meaning of a delicate taster, of a penetrating sense; σοφ-ός sapiens, sapidu-s, ant-seffan, and also σαφ-ής 'tasteable,' 'recognizable,' 'clear,' and σαπ-ρό-s 'smelling,' with the regular interchange between the sense of taste and that of smell. The retention of the physical primary meaning — with which we have also sap-a 'must,' σύφαξ, and OHG. saf (Germ. Saft), - is an advantage of the Latin. Σίσυφος is the σοφός in the superlative, ά-σύφ-ηλο-ς 'insipiens.' Cp. Van. 992. σκάφ-ος. σκάφη we discussed under No. 109, στέφ-ω at No. 224, στύφ-ω at No. 229. στυφ-ελ-ίζω we connected (No. 249) with στυπάζειν and τύπτειν. The connexion of τρέφ-ω with τέρπ-ω. maintained by Pott, was seen at No. 240 to be probable.

We have another instance of aspiration in the middle of a word in the rt. $\tau\alpha\varphi$, which appears in $\dot{\epsilon}$ - $\tau\dot{\alpha}\varphi$ - η - ν , $\tau\dot{\alpha}\varphi$ - σ -s (pres. $\theta\dot{\alpha}\pi$ - τ - ω). For the identity of this root with Skt. dabh, conjectured by Kuhn 'Ztschr.' ii. 467, finds no confirmation in the usage of the latter root as stated by the 'Pet. Dict.' ('damage,' 'deceive'). But it is equally impossible to hold another etymology, supported by Bopp 'Gl.,' Pott i¹. 257, Grimm 'Gesch.' 231, according to which $\tau\alpha\varphi$ would be equivalent to Skt. rt. tap 'burn,' from which on p. 501 we derived $\tau\dot{\epsilon}\varphi$ - $\rho\alpha$. This etymology, which would suit very well with the very ancient custom of burning corpses, appeared to receive its main support from the gloss of Hesych. $\delta\theta\alpha\pi\tau\sigma s$

ἄκαυτος. But the addition η ἄκλαυστος θάψαι γὰρ τὸ κλαῦσαι (so the MS.) turns the whole notice into a puzzle, which can give us no help. As Hugo Weber shows in Jahn's 'Jahrb.' 1853 p. 597, θάπτειν means in Homer properly 'to inter,' while τάφος, ταφή and especially τάφ-ρο-s 'ditch,' do not at all suit the notion of burning. Hence it is much better to 513 accept Hugo Weber's own explanation, advanced also by Pott ii². 467, but not held to by him, from the rt. dha (No. 309) from which dha-p would be an expansion (cp. dhū-p Gk. τυφ No. 251). In Skt. the causative from dhā 'put' is dhāpájā-mi. From 'put' comes readily the notion of condere 'put aside,' 'put away with care.' έ-τάφ-η-ν was then based upon the aspiration of the final consonant, and in consequence of this, the loss of aspiration of the initial. But a difficulty is presented by τάφ-ρο-s, inasmuch as the word does not mean 'grave' but any kind of trench1.

The aspiration of a medial is limited to a much narrower range. This is easily understood, since the hard aspirate, the only one known to the Greeks, is one step further removed from the medial than from the tenuis. The aspirate which has arisen from a medial has evidently undergone a double change: on the one hand it has been hardened, on the other it has been also aspirated. General considerations are therefore of themselves sufficient to make us especially cautious in admitting such a transition.

So far as I know, it has never been maintained that in any case an initial χ corresponds to a primitive g in the kindred languages, or a ϕ to a b. On the other hand there are some words in which it looks as if θ corresponded to a primitive d. But a careful investigation compels us to deny this agreement most positively. The first word belonging here is $\theta \epsilon \delta - s$, which is commonly grouped with Skt. $d\bar{e}v\dot{a}-s$ and Lat. deu-s (No. 269).

¹ Recently Joh. Schmidt 'Vocal.' i. 164 has compared τάφρο-s with ChSl. dib-ri 'ravine,' OHG. tobel 'saltus,' Lith. dub-ù-s 'hollow,' 'deep,' dûbé 'pit,' Goth. diub-s 'deep,' from which we should arrive at a rt. dhabh, dhambh. In that case we should have to separate τάφρο-s from τάφο-s, and certainly from θάπτεω.— Cp. also OIr. fudomain 'deep' (Z². 874), Cymr. dwfn 'deep' with OIr. 'world,' OGall. Dubno-rex, Dumno-rix.

show no trace of such an initial letter, so that the whole combination utterly breaks down. We placed these words under No. 515. — Gerland 'Ztschr.' x. 452 derives ριδαμό-ς 'asparagus,' which is given us only by Hesych., and which is suspicious from the neglect of alphabetic sequence, from the rt. vardh 'grow;' it is only possible to assume a community of root with ρίζα (No. 515: cp. Siegismund 'Stud.' v. 182).

More frequently β is identified with a bh, especially in the rt. βρεμ, the relation of which to the Skt. bhram is discussed fully by Kuhn 'Ztschr.' vi. 152. Between βρέμ-ειν (cp. ψψι- $\beta \rho \in \mu - \epsilon - \tau \eta - s$) 'sound,' 'roar,' $\beta \rho \circ \mu \circ \rho \circ \sigma$ 'roar,' $\beta \rho \circ \nu - \tau \eta$ 'thunder,' and the Lat. frem-e-re, frem-or, frem-i-tu-s we may recognize an almost complete identity of meaning. To these we may add the ON. brim 'breakers' (probably also Corn. bram 'crepi-531 tus ventris 'Z². 294), which establishes the antiquity of the bh. The corresponding Sanskrit words show instead of the meaning of a whirring sound that of a whirring whirling motion, an idea, which, as Kuhn shows, is further facilitated by particular points of agreement of various kinds between Sanskrit and the Teutonic languages. Thus this comparison, with which Döderlein 'Gloss.' 932 also agrees, may claim at least a certain probability. Cp. Fick i3. 702, Van. 611. We may conjecture that the true form of the rt. open occurs with a modified vowel in φόρμιγξ 'lyre.' For βρέμεσθαι is said in Pindar ('Nem.' xi. 7) also of the lyre. βράσσειν 'ferment.' 'seethe' (rt. $\beta \rho \alpha - \tau$) has been compared with Lat. fre-t-u-m and fer-v-eo, which suit in meaning (Van. 605 ff.). But & may here have originated in F, so that we discuss the word on p. 587. — Grassmann 'Ztschr.' xii, 93 compares βρεγ-μό-ς, βρέγμα the front part of the head, sinciput, with AS, bregen 'brain,' from which it would follow that the initial sound was originally bh, were there not much doubt remaining, both as to the form and as to the meaning, in the case of a word entirely isolated in Greek. [Hippocrates v. c. 896 derives the word from $\beta \rho \epsilon \chi \omega$, because this part of the head is the longest in hardening.] — It would be easier to believe that βρύ-ω 'teem,' βλύ-ω, βλύζω 'spirt,' both coming often in contact in their compounds, go along with φλύ-ω (No. 412 d), which they closely approach in meaning. Cp. Pott W. i. 1139. Corssen 'Nachtr.' 221 connects $\beta\rho\tilde{\nu}\tau o-\nu$ 'fermented drink,' which apparently belongs here, with Lat. $d\bar{e}$ -fr $\tilde{u}tu$ -m. — Here the question is only as to the interchange of bhr and br. But that even before a vowel bh should have simply become b, as Grassmann maintains with regard to rt. bha, with which he connects $\beta\acute{a}$ (ω), seems to me incredible. Even the comparison of $\beta a\sigma\kappa a(\nu\omega)$ 'bewitch' and fascinare (Corssen ii². 257), though attractive as far as meaning goes, does not convince me of it.

A verbal stem, in which we can hardly fail to recognize the same phonetic change where it is not initial, is the rt. Aaß. Here we find even within the limits of the Greek language the forms λάφ-υρο-ν 'booty,' άμφι-λαφ-ής 'embracing,' 'wide,' and the perf. $\epsilon \tilde{l} - \lambda \eta \phi - \alpha$, where the ϕ does not quite fall under the analogy of the majority of the aspirated perfects ('Greek Verb' pp. 180, 404). Now we find in Skt. the rt. labh (lábh-ē) in meanings which fully agree with the Greek 'seize,' 'secure,' 'receive,' but also (with upa-) concipere in the sense of the Greek έν γαστρί λαμβάνειν, with the substantive lābha-s 'obtaining,' 'gain' (cp. λημμα), so that Bopp 'Gl.,' Pott i1. 259, Benf. ii. 139 and others group these words together. The transition from bh to β in the case of this root readily takes its place by the side of the instances mentioned above, in which the preceding nasal occasioned the loss of the breathing. For we meet this nasal, not merely in the pres. 532 $\lambda \alpha \mu \beta - \alpha \nu - \omega$, where it may to a certain extent be regarded as an anticipation of the ν in the derivative syllable, but also in the Ion. fut. λάμψομαι and aor. pass. έ-λάμφ-θη-ν. It is not wanting in Skt. either, for there we find a-lambh-a-nt $a = \dot{\epsilon} - \lambda \alpha \mu \beta - \dot{\alpha} \nu$ -o $\nu \tau o$, and the causative lambhá-jā-mi, lámbh-ja-s' attainable.' Now as we must frequently, e.g. in the termination of the weak agrist $\sigma \alpha = sam$, and of the acc. sing. and plur. $\alpha = am$, $\alpha s = ans$, recognize a Greek a as the representative of am, an, it is not too bold to refer $\lambda \alpha \beta$ in $\tilde{\epsilon}$ - $\lambda \alpha \beta$ -ov to $\lambda \alpha \mu \beta$. In the same way on p. 312 we saw in µαθ the abbreviation of µανθ. Thus here too the nasal would give the occasion for the loss of breathing. Hence so far the expedients, to which we have had to resort, have been simple. But there are still some obscure points, especially the form λάζομαι, which is Homeric

and Ionic generally, and which is identical in usage with \auβάνω, λαμβάνομαι, λελαβέσθαι, with its by-form λάζυμαι. ('Greek Verb' p. 122.) In these forms (takes the place of β , as in some words discussed above (p. 490), where β was shown to be the modification of a y. It is the more surprising here, because there is absolutely no other case of contact between β and the aspirate. We shall come back to this question on p. 671. Another difficulty is presented by the initial letter. On the ground of the Hom. έ-λλαβ-ε and the common Greek εί-ληφ-α, εί-λημ-μαι Christ p. 83, and before him Benfey ii. 139, have maintained that AGB and Skt. labh go back to an older glabh, and that this glabh is again identical with the rt. grabh, the meaning of which is nearly akin. To support this conjecture Benfey has quoted a form actually occurring, i. e. the Lith. glob-oti 'to embrace.' But there is no example of an assimilation of $\gamma\lambda$ to $\lambda\lambda$. We must put $\xi\lambda\lambda\alpha\beta\epsilon$ by the side of forms like ἔλλιπε, discussed in the 'Greek Verb' p. 78, for which there is not the slightest trace of a double consonant at the beginning. - Sonne's notion ('Ztschr.' x. 128) of translating the bee-renowned "Υβλα by 'Wablingen' 'honey-combs,' and thus connecting it with rt. $\delta \phi = vabh$ (No. 406 b), is at any rate ingenious.

From two different points of view obpequo-s 'powerful,' which occurs as early as Homer, has been suspected of containing a β which has arisen from an aspirate. It has been compared with Lat. firmu-s. But the f here has evidently been 'shifted' from dh, as we saw under No. 316, and this is of itself sufficient to deprive the comparison of all probability. On the other hand Böhtlingk and Roth in the 'Pet. Dict.' and Fick i3. 18, who adds the Goth. ab-r-s 'strong' connect it with Skt. ambhrná-s 'powerful,' 'terrible,' the stem of which is abhrá-m 'cloud,' which has been compared with δμβρο-ς (p. 528). But, apart from other objections, the Greek word can hardly be 533 separated from βρί-θ-ω, βρι-αρό-ς, βρι-μό-ς (μέγας, χαλεπός). βρί-μη (ἀπειλή Hesych.) and other words discussed by Lobeck 'El.' i. 80, which point to a stem βρι, akin to βαρύ-ς (cp. above p. 475) and a prothetic d. (Cp. Van. 217.) We need attach no importance to the form δμβριμος, which is only found in late MSS. of the Iliad (Hoffmann 'Iliad xxi. and xxii.' p. 121). — There are also various objections to the conjecture of Kuhn ('Ztschr.' iv. 114) that $\delta\lambda\beta_0$ -s may be traced back to $\delta\lambda\phi$ ($\dot{\alpha}\lambda\phi$). I have connected the word with $o\bar{v}\lambda\epsilon$ (No. 555).

5. Softening.

By softening we mean the sinking down of an original tenuis into a medial. The justification of this term, and the conditions under which the phenomenon appears, have been discussed on p. 444. Generally speaking the tenuis rarely sinks into a medial in Greek, and hardly ever when initial; in the middle of a word this is only the case between two vowels, and in immediate connexion with fricatives, hence in the neighbourhood of sounds to which the medial, in consequence of its capacity for 'sonancy' comes nearer than the tenuis. The case is also very different with the various organs. The guttural tenuis, which we considered on pp. 444 f. to be the consonant requiring the most force of articulation, undergoes this softening the most frequently, the dental the most rarely; between the two stands the labial organ.

In the following words we may with certainty regard the γ as softened from κ :

ά-μολγ-ό-s 'darkness,' only in Homer (νυκτὸς ἀμολγῷ), which has been foolishly compared with ἀμέλγειν. It belongs to a rt. μαρκ, μρακ, Mod. Gr. μουρκίζει 'it grows dark.' — Cp. p. 568.

ἀρήγ-ω 'defend,' 'help,' with ἀρωγ-ή, ἀρωγ-ό-s we placed under No. 7. All the meanings of the rt. ἀρκ, especially those occurring in αὐτ-άρκ-ης, ποδ-άρκ-ης, ἄρκ-ιο-ς, recur in ἀρήγω, so that we may with confidence venture to assume a form ἀρακ, expanded by a subsidiary vowel, from which came ἀρήγ-ω. The soft guttural appears only between two vowels. We meet a vowel of the same nature also in the cognate ἀλ-ε-ξ No. 581. The objection raised against this view, that a vowel of such an origin cannot be lengthened, breaks down, when we consider σκ-η-νίπτω = σκνίπτω, σκάρ-i-φος and σκάρφος, ἀρ-η-νο-βοσκό-ς and st. Fαρν, forms which have to be treated on p. 728 ff.

534 αρπ-α-ξ corresponds so clearly to the Lat. rap-α-x, that no one will think it too bold to assume a Greek stem αρπ-α-κ corresponding to the Lat. rap-ᾱ-c. Further details under No. 331.

διαθηγή, as Democritus of Abdera is asserted to have said for διαθηκή, seems, after what Bernhardy ad Suidam s. v. ρυσμός, and L. Dindorf in Steph. Thes. s. v. διαθηγή have written on the question, to be only a false reading for διαθιγή (rt. θ ιγ), as I. Bekker now reads in Suidas. This instance is therefore in any case very doubtful.

κραυγ-ή 'cry' = Skt. $kr\bar{o}\varsigma$ -α-s 'cry' from the rt. $kru\varsigma$ (from kruk), with κραύγ-α-σο-s 'crier,' κραυγάζω, κραυγανωμαι ('Greek Verb' p. 183, 224). Lottner 'Ztschr.' xi. 185 adds Goth. hruk-jan 'to crow' (cp. κρωζειν crocitare), in spite of the want of shifting of the second k. Imitative words have many peculiarities. Fick i³. 524, 540 connects κράζω with κρέκειν, which denotes the slighter sound of chirping or making to whir, and ChSl. krak-a-ti 'to crow,' but κραυγή with rt. $kru\varsigma$. It is certain that the Greeks regarded κραυγή as the verbal noun to κράζειν.

κρίζω, κέκριγα 'squeak,' 'rattle' in the Attic writers, in Homer κρίκε 'cracked' with the tenuis retained. 'Greek Verb' p. 224, ChSl. krikŭ 'cry.' Fick i³. 539. Vaníček p. 141 has collected all imitative words of this type.

 $\lambda \dot{\alpha} \lambda \alpha \gamma - \epsilon s$ 'chatterers,' as a certain kind of frogs were called according to Hesych., with $\lambda \alpha \lambda \alpha \gamma - \dot{\eta}$, $\lambda \alpha \lambda \alpha \gamma - \dot{\epsilon} \omega$ are compared by Budenz 'Das Suffix $KO\Sigma$ ' p. 72, probably correctly, with $\lambda \dot{\alpha} \beta \rho \alpha \dot{\xi}$, $\gamma \alpha \dot{\nu} \rho \alpha \dot{\xi}$ and other words with the suffix $-\alpha \kappa$, which in many cases has plainly something of a diminutive force. $\lambda \dot{\alpha} \lambda \alpha \dot{\xi}$ is therefore a kind of diminutive to $\lambda \dot{\alpha} \lambda o - s$ and $\lambda \alpha \lambda$ is to be given as the root. Cp. Van. 772.

In $\mu(\sigma\gamma-\omega)$ with its rt. μ if $\hat{\epsilon}-\mu(\gamma-\eta-\nu)$, $\mu(\gamma-\alpha)$ the γ was seen under No. 474 to be a softening from κ , which has been retained even in Latin, the language most akin. Probably the softening came in first in forms like μ if $\gamma-\nu$ if $\gamma-\alpha$, μ if $\gamma-\alpha$, μ if $\gamma-\alpha$, μ if $\gamma-\alpha$, between vowels, and before the nasal.

 δ -λίγ-ο-s we connected under No. 553 with Skt. lic, according to which lik was to be regarded as the root. In λίσσον $\tilde{\epsilon}$ λασσον we thought a trace of the κ was to be discerned.

ὄρτυξ (st. ὀρτυγ) under No. 507 was connected with Skt. vart- $ik\bar{a}$. In this case the Greek grammarians bear witness to the by-form with κ .

 $\pi \dot{\eta} \gamma - \nu \nu - \mu \iota$ (No. 343) has indeed in Greek, in all immediately related forms, $\pi \alpha_{\Gamma}$ as its root, but the Skt. pac, and still more plainly the Lat. $pac \cdot i \cdot sc \cdot o \cdot r$ by the side of $pang \cdot o$, point to pak. From this harder form are explained the aspirate in $\pi \dot{\alpha} \chi - \nu \eta$ and $\pi \alpha \chi \dot{\nu} \cdot s$ (cp. p. 521) and the $\sigma \sigma$ of $\pi \dot{\alpha} \sigma \sigma \alpha \lambda o \cdot s$; that the latter belongs to this root is established by Lat. $p\bar{a} \cdot lu \cdot s$ ($= pag \cdot lu \cdot s$), 535 $pax \cdot illu \cdot s$ (Schwabe 'De deminutivis' p. 97). The Lat. $pessulu \cdot s$ on the other hand is the Italian borrowed form of $\pi \dot{\alpha} \sigma \sigma \alpha \lambda o \cdot s$.

In $\pi\lambda\epsilon\gamma-\nu\dot{\nu}-\mu$, the late by-form of $\pi\lambda\dot{\epsilon}\kappa\omega$ (No. 103 'Greek Verb' p. 111) ν is still more plainly the occasion of the softening.

In $\dot{\rho}\dot{\eta}\gamma$ - $\nu\nu\mu\iota$ rt. $F\rho\alpha\kappa$ we shall find below the same change. $\sigma\bar{\imath}\gamma$ - $\dot{\eta}$ we traced back (No. 572) to a rt. svik.

στεργάνο-ς we find quoted in Hesych. with the meaning κοπρών. The identity of the stem with that of the Lat. sterc-us is evident. Cp. No. 110.

We saw under No. 234 that $\tau \epsilon \gamma \gamma - \omega$ 'wet,' quite a parallel to Lat. ting-o, probably goes back to a form with k.

τήγ-ανο-ν 'melting pot,' clearly belongs to τήκ-ω (No. 231). We may place here also the suffixes -ιγ (μαστι-γ as well as μαστι), -ιγγ, -υγγ, e. g. in φῦσιγξ, φόρμιγξ, λᾶϊγξ, φάρυγξ, σπινθάρυγξ; the connexion of these with the suffix -κ and -κο is placed beyond doubt, after what Budenz ('Des Suffix -κοs') and Schwabe ('De deminutivis' p. 49 sqq.) have collected. In the same way the suffix -υγα in μαρ-μαρ-υγή with *μορμολ-υκ (μορμολύκειον, μορμολύττομαι), though the latter has a different stem, corresponds to the Skt. -ūka-s. Ernst Kuhn 'Ztschr.' xx. 80.

To these examples of a γ , not initial, softened from κ , some others will be added on p. 674, inasmuch as this weakening will be established for those verbal-stems in γ , which have in the present-stem $\sigma\sigma$ ($\tau\tau$).

In all these cases, therefore, it is a κ , not at the beginning of a word, but in the majority of instances between two vowels and accompanied by a nasal, which is softened to It would be hard to give a single certain instance of

softening of an initial k, with the exception of some stems

with $\kappa\nu$ and $\kappa\rho$, to which we return on p. 705. The identity of meaning makes it probable that κνέφ-ας, γνόφ-ο-ς, δνόφ-ο-ς are to be placed together in this order (Lobeck 'Elem.' i, 95). I therefore regard γ in γνόφο-ς, which is described as Aeolic (Ahrens 'Aeol.' 73), as softened from κ, δ as arising by the influence of the ν (cp. άδνόν άγνόν Κρητες Hesych.). Döderlein, though I do not agree with his analysis of these forms, is certainly right in placing here also κνώψ τυφλός (Suidas), in which we should thus have one more witness in favour of κ (' Gloss.' 2246). - In the same way we may regard κνέφαλον 536 or κνέφαλλον 'cushion,' which is recorded as well as the Aeolic γνόφαλλον, as the older form, and κνάφ-αλο-ν 'flockwool, which probably belongs to κνάπτω 'full,' κναφεύς, etc. as the stem-word. Fick i3. 807 traces it to a rt. skap 'shave,' 'scrape.' The stem kambala [Skt. subst. 'wool'] would then be related to κναφαλο much as δμφαλο to OHG. nabulo (No. 403). Still the root remains doubtful. Others also of the numerous forms from a like stem show here and there the softer yv. - To these must be added thirdly the Epic γνάμπτω 'bend,' to which we can ascribe the same relation to the form recorded by Hesych. κνάμπτει, κάμπτει. — Finally there is γράστις, a late by-form for the Attic κράστις 'grass,' 'fodder.'

The dental medial appears much more rarely in the place of a tenuis. The instances which can be proved are the following:

 $\delta\acute{\alpha}\pi\iota$ -s is used by Aristophanes and Xenophon and quoted by Athenaeus in the place of the older forms in τ $\tau\acute{\alpha}\pi\eta(\tau)$ -s, $\tau\acute{\alpha}\pi\iota$ -s (Steph. Thes. s. vv.), which occur in Homer.

In the middle of a word δ takes the place of τ in "Ap $\tau \epsilon \mu \iota - s$ 'Ap $\tau \epsilon \mu \iota \delta - s$, while the Dorians (Ahrens 240) said 'Ap $\tau \alpha \mu \iota \tau \iota \tau s$ and derived from this the name of the month 'Ap $\tau \alpha \mu \iota \tau \iota \tau s$ and of the promontory 'Ap $\tau \alpha \mu \iota \tau \iota \iota \upsilon s$. The origin of the name is still obscure: [Preller i³. 237 accepts the derivation from $\dot{\alpha} p \tau \epsilon \mu \dot{\eta} s$ E 515 ν 43, which is as old as Plato 'Crat.' 406 b; Pott i¹. 221 derives it from $\dot{\alpha} \dot{\epsilon} p \alpha \tau \dot{\epsilon} \mu \nu \upsilon \sigma \alpha$!] We find also $\Theta \dot{\epsilon} \mu \iota - s$ in Pindar, as against $\Theta \dot{\epsilon} \mu \iota - s$, $\Theta \dot{\epsilon} \mu \iota \dot{\delta} - s s$, so that the δ here too seems to have originated in τ . Still the case is different here because of the appellative $\theta \dot{\epsilon} \mu \iota - s$ (No. 309)

with its plural $\theta \epsilon \mu \iota \sigma \tau - \epsilon s$, which occurs as early as Homer: the stem of this is probably shortened from $\theta \epsilon \mu \iota \sigma \tau \iota$, and is to be derived from the stem of the derivative verb $\theta \epsilon \mu \iota \zeta \omega$ (Leo Meyer ii. 331). In this case it is not a question of a phonetic transition, but of analogies of inflexion.

The two ordinals εβδομο-s and σχδοο-s, with their by-forms έβδόματος, ὀγδόατος are probably the only genuine Greek words, in which the favorite groups $\pi\tau$, $\kappa\tau$ sank down into βδ. γδ. The occasion lay, as I conjecture in agreement with Leo Meyer 'Ztschr.' vi. 292, in the influence of the µ and of the o, which phonetically approximates closely to a F. I regard the o of εβδομο-s as an irrational vowel, to use the terminology of Corssen 1. Cp. Dor. έβδεμήκοντα. Thus the μ , though separated by it from the stem $\epsilon \pi \tau$, might still exercise a softening influence upon the \u03c4, and this letter, as soon as it sank into δ , necessarily assimilated the π to itself. It is true that we can only prove from Greek the softening influence of the μ upon an immediately preceding κ or χ $(\pi \epsilon \pi \lambda \epsilon \gamma - \mu \alpha \iota, \beta \epsilon \beta \rho \epsilon \gamma - \mu \alpha \iota)$. But we have the analogy of the Slavonic sed-mi (= Lith. septyni), where the vowel disap-537 peared entirely. The o of oydoo-s too, though it takes the place of a in the Lat. octavu-s, was phonetically an irrational vowel, closely approximating to the spirant F, as is seen plainly from n 261, £ 287, where oyoov is to be scanned as disyllabic. I. Bekker 2 indeed - contrary to the traditional authority — instead of άλλ' ὅτε δη ὄγδοόν μοι ἐπιπλόμενον έτος ήλθεν reads άλλ' ὅτε δὴ ὀγδόατον. This view closely approximates to that developed by Ascoli 'Stud.' ix. 358, only that Ascoli actually presupposes septmo-s, okt-vo-s. As no one will deny that the ordinal belongs to the corresponding cardinal numeral, this is an evident instance of weakening, which we must describe as such and attempt to explain, even if only by a weak analogy. The process remains unique, even after we have recognized the reason for

¹ [I.e. a vowel which does not exactly correspond in its duration either to a long vowel or to a short one. Such a vowel may either exceed or fall short of the ordinary length of a long or a short vowel. Here is meant a vowel which has not yet attained to the full length of an ordinary short vowel. Cp. Corssen ii². p. 607.]

it, for in $\epsilon \rho \epsilon \tau - \mu \delta$ -s the τ remains unchanged before μ , while $*\tau \epsilon \tau \delta \tau \delta \rho \epsilon$ became $\tau \epsilon \sigma \delta \delta \rho \epsilon$. The much-used numerals have in general many peculiarities. (Cp. my paper 'On the range of the phonetic laws' Berichte der phil. hist. Cl. d. k. s. Ges. d. W. 1870 p. 33 f.).

 $\nu \epsilon \pi o \delta \epsilon s$ we regarded under No. 342 as equivalent to the Lat. $nep\bar{o}tes$, but we found the occasion for the weakening of the t in the resemblance to $\pi \delta \delta - \epsilon s$: $\nu \epsilon \pi \sigma \tau \epsilon s$ would be a form quite without any analogy in Greek.

παρδακό-ς 'damp' (Aristoph. 'Pax' 1148), with its Ionic by-form πορδακό-ς is usually connected with the Laconian πάρταξον (M.S. πάρταζον) ΰγρανον, quoted by Hesych.; in that case the τ of the latter must be regarded as the more primitive. The origin is obscure, the words rare. Fick. i³. 670 compares πλάδ-ος 'wetness,' to which belong πλαδάω, πλαδαρός with Lat. prā-tu-m. The origin of these rare words is very obscure. [Paley notes: 'it is probable that we have here words purposely taken from the language of the Attic farmer.' Schol. παρδακόν δίνγρον 'οῦτω γὰρ καὶ 'Αρχίλοχος καὶ Σιμωνίδης.]

For $\pi o \delta a \pi \delta$ -s we find in a somewhat various usage, little differing from $\pi o \hat{\iota} o s$, $\pi o \tau a \pi \delta$ -s in writers like Dionysius of Halicarnassus, Josephus, and Philo; but their authority is not sufficient to establish the harder form as the older (Phryn. p. 56). The explanation of the pronominal form from an ablatival $\pi o \tau$ - and $\dot{\alpha} \pi \dot{\sigma}$ (Pott ii¹. 265) is in any case extremely uncertain.

σμάραγδο-ς corresponds in meaning to the Skt. mara-kata-m and marakta-m (Bopp 'Gl.'). But the Greek word is certainly borrowed, and the Indian word is also without any affinities in Skt. (Pott ii¹. 195, Benf. i. 533). And borrowed words have ways of their own.

The variation in the later vulgar language between τ and δ is treated by Lobeck 'Paralipomena' 149.

More frequently π and β stand face to face. Here the following words come under consideration:

 $\dot{\alpha}\beta\lambda\delta\pi\epsilon_s$ (probably more correctly $\dot{\alpha}\beta\lambda\delta\pi\epsilon_s$) was said by the Cretans, according to Hesych., for $\dot{\alpha}\beta\lambda\alpha\beta\epsilon_s$ (Ahr. 'Dor.' 84). Although the Cretans sometimes instead of a genuine

medial really used the tenuis, or at any rate used a harder 538 sound, which seemed to the rest of the Greeks a tenuis (κλαυκιόων = γλαυκιόων, κλάγος = γλάγος, cp. Mor. Schmidt 'Ztschr.' xii. 216), yet here the π might really be the older sound, and the β of $\beta\lambda\alpha\beta$ - ϵ - $\tau\alpha\iota$ (Hom.), $\beta\lambda\alpha\beta$ - $\dot{\eta}$, etc. might be softened from π . As $\beta\lambda$ according to Greek phonetic laws takes the place of an initial $\mu\lambda$ (rt. $\mu\lambda$ $\beta\lambda\omega$ - $\sigma\kappa$ - ω), we may perhaps trace βλα-π back to μλα-π, and regard this μλα-π as an expansion, determined by π , of the rt. $\mu\alpha\lambda$, discussed under No. 457, which appears in this form in μαλα-κό-ς, ά-μαλ-ό-ς, whence άμαλ-άπ-τω (explained by κρύπτω) in Sophocles 'Frag.' 413 Dind. and Lycophon v. 34 (Van. 706), and with a transposed vowel in βλά-ξ. The Skt. mlā (mlāi), already compared there, with the meaning 'to become soft,' 'flaccid,' formed a causative mlā-pájā-mi 'to make soft.' Similarly Benfey i. 524. Homeric phrases like βλάβεται δέ τε γούνατ' ίόντι (Τ 166, ν 34), βλάψε δέ οἱ φίλα γούνατα (Η 271), Διόθεν βλαφθέντα βέλεμνα (O 489) favour this derivation more than that assumed by Döderlein ('Gloss.' 323), from rt. Ban βάλλειν. Benfey ('Or. und Occ.' i. 574) and Bugge 'Stud.' iv. 325 compare Skt. gla-p-ájā-mi 'exhaust,' 'weaken,' 'suffer to go to ruin,' supposing that the organ of the initial consonant has been assimilated to that of the consonant in the middle. I still think it simpler to start from rt. mla. Otherwise Pott W. i. 594.

άβρό-s is connected by Christ 'Lautl.' 100 with $\dot{\alpha}\pi$ - α - λ 6-s. The meanings are indeed not identical, as $\dot{\alpha}\pi\alpha\lambda$ 6s means rather 'tender,' 'soft,' $\dot{\alpha}\beta\rho$ 6s 'luxurious,' but they approach each other very closely, and quite coincide in $\dot{\alpha}\pi\alpha\lambda$ 0ν γελ $\dot{\alpha}\sigma\alpha\iota$ [ξ 465] and $\dot{\alpha}\beta\rho\dot{\alpha}$ γελ $\dot{\alpha}\nu$ [$\dot{\alpha}\beta\rho\dot{\alpha}$ s γελ $\dot{\alpha}\nu$ Anacreont. 41.3], which can scarcely be distinguished. Fick i³. 492 deduces a rt. αbh , akin to $\dot{\alpha}\phi$ - ρ 6-s 'foam,' with which I connect ('Stud.' ii. 440) $\nu\dot{\eta}\phi\omega$ (cp. $\nu\dot{\eta}\sigma\tau\iota$ s) as the opposite of eb-riu-s. The meaning of the rt. abh must have been that of teeming fulness. If this conjecture is correct, we have here an instance not of softening, but of loss of aspiration.

'Aμβρακία, the later form for 'Aμπρακία, evidently owes its β to the same weakening influence of the preceding μ , which at a later period of the language attacked every π , and

finally gave rise to the custom in modern Greek of writing $\mu\pi$ for the sound of our β .

St. $\kappa \alpha \lambda \nu \beta$ $\kappa \alpha \lambda \dot{\nu} \beta - \eta$ 'hut,' $\kappa \alpha \lambda \dot{\nu} \pi \tau \omega$ 'cover up,' has quite the appearance of an expansion of the rt. $\kappa \alpha \lambda$, mentioned under No. 30 and on p. 529 and the Lat. clup-eu-s makes it probable that originally p stood here instead of β . (Cp. Pott W. i. 680).

καρβατίνη· ὑπόδημα (Hesych.) is certainly rightly considered a weaker and dialectic form of καρπάτινο-s 'leathern,' the neuter of which word is quoted with the same meaning.

κεβάλη and κέβλη were mentioned above p. 511. There is a remarkable by-form κύβη, proved by 'E.M.' 543, 22, preserved in κυβιστάω (εἰς κεφαλὴν πηδῶ), κυβιστητήρ, from a lost κυβίζω. This form too has by-forms with π : κύπρος κεφάλαιον ἀριθμοῦ, from which M. Schmidt ad Hesych. derives cifra¹, 'cipher,' and with ϕ : κύφερον ἢ κυφὴν κεφαλὴν Κρῆτες (cp. Lobeck 'Proll.' 91). The forms with ϕ Fick i³. 537 compares with Skt. ka-kúbh (f.) 'top,' 'point.'

The variation between the names for the 'ape' $\kappa \tilde{\eta} \pi \sigma$ -s or $\kappa \tilde{\eta} \beta \sigma$ -s has little importance as the name is that of a foreign animal (A. Müller in Bezzenb. 'Beitr.' i. 280).

 $\kappa\epsilon$ - $\kappa\lambda\epsilon\beta\dot{\omega}$ -s occurs on the inscription of Andania I. 79 (ed. Sauppe) for the common $\kappa\epsilon$ - $\kappa\lambda o\phi$ - $\dot{\omega}$ s from the rt. $\kappa\lambda\epsilon\pi$. $\dot{\epsilon}\gamma\gamma\rho\alpha$ - $\beta\dot{\omega}$ s' $\dot{\epsilon}\gamma\gamma\rho\dot{\alpha}\phi\alpha$ s in Hesych. (cp. 'Greek Verb' p. 408). Perhaps we are to assume already for this β the pronunciation v, and for ϕ about this time here and there that of f, so that here the hard spirant is replaced by the soft.

κομβακεύεται κόμπους λέγει (Hesych.) owes its β evidently

¹ [Better derived from Arabic cifr 'empty,' 'nought,' cafira 'to be empty.' Cp. Brachet s. v. chiffre, Diez s. v. cifra.]

to the nasal (Leo Meyer i. 41), and it is the same with κρέμβαλο-ν 'clapper,' whence κρεμβαλιάζω, κρεμβαλιαστύς, compared with crepare, crepundiae (Walter 'Ztschr.' xii. 379, Pott ii². 683).

 $\lambda \epsilon \beta - \eta \rho i - s$ 'hide,' 'skin,' and $\lambda o \beta - \delta - s$ 'pod,' 'shell,' whence $\tilde{\epsilon} \lambda \lambda o \beta \alpha$ 'pulse,' cannot be separated from $\lambda \tilde{\epsilon} \pi - \epsilon \iota \nu$ 'peel,' $\lambda \tilde{\epsilon} \pi - s$ 'scale,' 'rind,' 'pod,' and the more or less exactly equivalent forms $\lambda \tilde{\epsilon} \pi - \nu \rho o - \nu$, $\lambda o \pi - \delta - s$, $\lambda \epsilon \pi - i - s$. We may add Lat. *lib-er* 'bast' (inner bark), 'book' (Hehn 3 521). The meanings 'lobe of the ear' or 'of the liver,' which $\lambda o \beta - \delta - s$ also has, must thus be regarded as secondary. The lobe of the ear was compared to the drooping pod of pulse, and named from this.

 $\sigma\tau i\lambda\beta$ -ω 'glitter,' 'shimmer,' when compared with the adj. $\sigma\tau i\lambda\pi$ -νό-s, and the proper name $\Sigma\tau i\lambda\pi\omega\nu$ must be regarded as the softened form. The rt. $\sigma\tau i\lambda\pi$ has indeed not yet found any exact correlate in the cognate languages, for Fick's conjectures i³. 600 are very uncertain, but Benfey's connexion of it with $\sigma\tau\epsilon\rho\sigma\pi\eta$, $\dot{\alpha}\sigma\tau\rho\dot{\alpha}\pi\tau\omega$ (i. 662), accepted by Walter 'Ztschr.' xii. 540 379, has much probability, if we consider the complete similarity of meaning.

στοιβ-ή has been discussed under No. 229 in its relation to στύπ-ο-ς, Lat. stup-a, stip-a. We shall be obliged to assume for Greek too a rt. στι.

υβρι-s was connected by Schneider in his Lexicon with ὑπέρ (No. 392), comparing superbia. Pott W. i. 414 detects in the ι the rt. i 'go,' so that υβρ-ι-s would mean ' transgression,' ὑπερβασία. Attractive as this sounds, it still has its difficulties. In a compound of this kind, we could hardly expect the bare root; at least I do not know any Greek noun-form at all analogous. And besides, it is perhaps not merely an accident that the rt. i is not compounded with this preposition either in Greek or in Latin. Hence it seems to me more probable, that the ι of $\tilde{\nu}\beta_{\rho}$ - ι -s is merely derivative, like the u (o) of the Latin adjective super-u-s, which is extant in Greek (Pott i². 678) only in a special technical usage in $\ddot{\upsilon}\pi\epsilon\rho\sigma\nu$ or $\ddot{\upsilon}\pi\epsilon\rho\sigma\nu$ 'pestle,' and $\dot{\upsilon}\pi\epsilon\rho\alpha$ 'upper rope,' and in the derived ' $Y\pi\epsilon\rho$ - $i\omega\nu$ (Düntzer 'Ztschr.' xii. 7). It is worth noticing that ΰβρι-s as a masculine in Hesiod "Εργα 190 (κακῶν ῥεκτῆρα καὶ ὕβριν ἀνέρα) appears as a nomen agentis

(cp. Lobeck 'Paralipp.' 41). G. Hermann actually assumes a neuter to it in Aeschylus 'Suppl.' 785 ($\gamma \acute{\epsilon} \nu o s \gamma \grave{\alpha} \rho$ Al $\gamma \acute{\nu} \pi \tau \epsilon \iota o \nu$ " $\beta \rho \iota$). The word is singular in any case. Ludw. Lange in the 'Ztschr. f. d. österr. Gymn.' 1863 p. 301 prefers to regard " $\beta \rho \iota$ -s not as a derivative from $\mathring{\nu} \pi \acute{\epsilon} \rho$, but as a parallel form, also derived from that upa, which under No. 392 we learnt to recognize as the stem-form of $\mathring{\nu} \pi \acute{\epsilon}$ and $\mathring{\nu} \pi \acute{\epsilon} \rho$. We should then have to divide " π - $\epsilon \rho o$ -s and to compare " β - $\rho \iota$ -s, so far as the suffix goes, with " δ - $\rho \iota$ -s. It is true that this analogy could not be used in the case of the substantive. Therefore, even if these views are accepted, there are difficulties remaining with respect to the formation of the word. In any case $\mathring{a}\beta \rho \acute{o}$ -s should be compared for the $\beta \rho$. Bezzenberger's comparison ('Beitr.' ii. 155) of " $\beta \rho \iota$ -s with Skt. ug-r \acute{a} -s 'violent,' arouses doubts on the score of form and of meaning alike.

All the other instances, in which the same phonetic change has been assumed, are at least very doubtful. It is improbable that βό-σκ-ω corresponds to the Lat. pa-sc-o, as among others Leo Meyer, 'Vergl. Gr.' i. 41, and Zacher 'De nominibus in acos' p. 64 (quite otherwise Fick ii³. 229), assume, if only because no other example of an initial β for π before a vowel can be 541 established. It is only of the Delphic dialect that we know (Ahrens 'Dor.' 83) that this softening occurred in it, and there is credible authority for it only in the case of extremely few words. Among them Βύσιος (rt. πυθ No. 328) may be explained otherwise, $\beta \alpha \tau \epsilon \hat{i} \nu$ possibly agrees with $\pi \alpha \tau \epsilon \hat{i} \nu$ only in meaning, while it belongs etymologically to rt. βα. βικρός for πικρός may be allowed to stand. Still we owe the notice to the not very trustworthy Plutarch, who wished to explain Βύσιος. Zacher adds the Homeric ή-βαιό-ς, later βαιό-ς, tracing it back to Baf-jo-s and connecting it with Goth. favai 'few:' but I cannot approve of this, all the less because the same stem appears in the form $\pi \alpha \nu$ (No. 351). Pott W. i. 199 agrees in this opinion. — The softening in βρα-βεύ-ς 'umpire' would be less surprising on account of the p. This word, in Greek quite isolated, is by Benfey ii. 106 referred to $pra-bh\bar{u}$ 'pracesse;' but this does not explain either the β or the α , so surprising beside $\pi \rho \delta$, or the special meaning of the word, which Döderlein ('Reden und Aufsätze' ii. 145) ascribes

to the rt. $\mu\epsilon\rho$ ($\mu\epsilon'\rho\rho$ - $\mu\alpha\iota$ No. 467). This is satisfactory enough as regards the meaning, and the initial letter, but whence comes the second β ? Are we to suppose this, as in rt. $\beta\lambda\alpha\beta$ (p. 538), softened from π , and to assume a st. $\mu\rho\alpha$ - π with the meaning 'apportion to?' In either case the initial β might have favoured the softening. This remains, however, pure conjecture. — For $\sigma'\epsilon\beta\omega$, which Benfey 'Ztschr.' vii. 56 has attempted to connect with the Skt. rt. sap 'attach oneself to,' 'honour,' I may refer to what was said on p. 481. It is not even consistent with the meaning: $\sigma'\epsilon\beta\alpha\mu\alpha$, $\sigma'\epsilon\beta\alpha$ s ($\sigma'\epsilon\beta\alpha$ s μ' $\epsilon'\chi\epsilon\iota$ $\epsilon'\iota\sigma\rho\rho'\omega\nu\tau\alpha$ γ 123), $\epsilon'\iota\sigma\epsilon\beta'\eta$ s, $\sigma\epsilon\beta'\iota\zeta\omega$ we have the fundamental notion of sacred, astonished or retiring awe, just the opposite, therefore, of the notion of 'attaching oneself to,' suggested by Benfey as a link between the two.

According to these investigations of ours, softening has altogether a very limited range. Even including foreign words, isolated dialectic forms and suffixes, we only obtained 26 instances of γ for κ , 7 of δ for τ , 13 of β for π , 46 in all, an extremely small number in comparison with the frequency of the instances in which the hard explosive has been faithfully retained, the number of which above (p. 408) reached 319. It is evident that this result by no means confirms the attempts, which have been made in various quarters, to prove that Greek suffixes in δ are modifications of those in τ which are so widely retained, or to explain Graeco-Italic pronominal forms in d from an older t.

In earlier editions of this book I thought I could attach to the weakening of the tenuis to the medial a phenomenon, for 542 which I regarded only two instances as demonstrated, the sinking down of an original bh to the spirant v (F). But the rarity of the process was enough of itself to awaken mistrust. There is also the consideration that, as we shall show below, the sound of the F was probably tolerably far removed from the sound of the bh hardened among the Greeks to ϕ . The two roots meant here are rt. Fa_F $\check{a}_{\gamma}\nu\nu\mu\iota$ 'break,' $\dot{a}_{\gamma}\check{\eta}$ 'breach,' 'breakers,' $\dot{a}_{-\alpha}\gamma-\dot{\eta}s$ 'unbreakable,' previously quoted by me under No. 654, and rt. Fpa_F $\dot{p}_{\eta}\gamma-\nu\bar{\nu}-\mu\iota$ 'tear apart,' 'break apart,' $\dot{p}_{\eta}\gamma-\mu\alpha$ 'rent,' $\dot{p}_{\eta}\gamma-\mu\dot{\nu}$ 'breakers,' $\delta\iota\alpha\rho\rho\dot{\omega}\xi$ 'broken

through, ρωγαλέο-ς 'torn apart' (previously No. 655). Το the varied evidence for the F in both groups of words we shall return. The rt. Far appeared to correspond to Skt. bhang (bhanág-mi) 'break,' 'burst apart,' bhangi-s 'outburst,' 'wave,' Lith. bang-à 'wave,' Bang-pu-tì-s 'wave-blower' (a sea-god), OIr. com-boing 'confringit,' but for these non-Greek words we can only deduce a rt. bhag (Fick i3. 689). The Greek Fay remains isolated. It is true that Fick i3. 761 tries to connect the latter with Lat. vag-u-s, Lith. vinge 'curving,' 'bending' = OHG. wenke and winchan. But I do not find here any striking agreement in meaning. - But the case is otherwise with rt. Fpar. If we surrender, attractive as it is, the comparison with Lat. frango, Goth. brikan, verbs not represented, as it appears, in Greek, still Fpay finds an entirely corresponding parallel in the rt. vrak (Fick i3. 773) and its by-form vlak. The hard k has been retained in ράκ-ος (beside λάκος No. 86), Aeol. βράκ-ος 'rag,' and in βρακ-ίαι' οἱ τραχεῖς τόποι (Lobeck 'El.' i. 134), i.e. 'broken,' 'torn ground,' but shifted by aspiration in $\dot{\rho}\alpha\chi$ - $\dot{\iota}\alpha$ (Ion. $\dot{\rho}\eta\chi$ - $\dot{\iota}\eta$) 'breakers,' while ρήγ-νῦ-μι goes along with the softened forms mentioned on p. 533 ff. (e. g. πλήγ-νυ-μι). The notion 'tear,' which attaches to the Greek words, recurs in (v)lac-er (cp. ρωγαλέος), (v)lac-ini-a and lac-er-na, which closely approach λάκος and ράκος (Vaníček p. 908). If Fick is right in adding εὐλάκα 'plough' (for $\dot{\epsilon}$ - $f\lambda\dot{\alpha}\kappa$ - α), which according to Hesychius was Laconian, the Greeks too were not without a by-form in l. Hence we can make good the connexion with the rt. Fρακ by assuming the usual softening, and on the other side aspiration.

543 B. Sporadic Changes of the Nasals.

The nasals are so closely akin to each other, that there is nothing surprising in the change of one nasal into that of another organ. The most frequent instance is when we see the dental nasal passing into the guttural or labial under the influence of following sounds: ἔγ-κειμαι ἔμ-πορος: this is, as every one knows, extremely common in inscriptions, where two words come together, and not uncommon in MSS. (Giese 'Aeol. Dial.' pp. 84, 87, Lobeck 'ad Ajac.' vv. 786, 836,

'Studien' x. 211 ff.): ΕΜΠΡΟΜΑΧΟΙC, ΕΓΚΙΒΩΤΙΩΙ, έμμέσω, άμβωμοῖσι. Hence, as Giese u. s. very justly says, all final nasals coalesce into a single one. v represents etymologically not merely Indo-Germ. n, but also m, and it is purely accidental if, in consequence of an assimilating influence, the original labial nasal, e.g. in TEM MYCIAN, TΩM MICOΩ-CEON phonetically reappears. From the Greek standpoint v still remains the prevalent sound. The analogies of cognate languages were adduced above p. 448. It is somewhat remarkable that the dental nasal occasionally makes its way from the end of a word into the word itself. This is undoubtedly the case with the Doric pronominal accusative νίν, as compared with the Epic μίν. So far as I know, Döderlein ('Reden u. Aufsätze' ii. 144) was the first to suggest the explanation, that this accusative had originated in iμ-iμ, and was thus equivalent to the OLat. em-em (eundem), quoted in Paulus 'Epit.' p. 79. As a reduplicated accusative (cp. se-se) of the wide-spread pronominal stem i = Lat. i (i-s, i-d), μίν would thus correspond to a German ihn - ihn (him him). This explanation seems to me to be self-evident. We have still in the Epic form μ -i ν the old labial, in the Doric ν -i ν already the later dental nasal. To be sure the reduplication would not have its intensive force here, any more than in the Lat. sese. But this might easily be lost in the course of time. Pronominal stems easily become attached to each other, as is shown by ο-υ-το-ς, αυ-τό-ς, hi-ce, without the meaning of the compound stem being very different, in the usage known to us, from that of the simple stem. We may assume the same thing also with regard to reduplication. The pronominal stems ma and na, to which some have wished to refer µiv and νίν (Bopp 'Vergl. Gr.' ii², 172, 177), are not used in any cognate language in a manner at all similar, except in composition 1. In that case too we should have expected anything 544 rather than the i. With regard to the aphaeresis of the first i compare νέρθεν, νέρτεροι for ένερθεν, ένέρτεροι. — In the same way it cannot be denied with regard to $\xi \dot{\nu} \nu (\sigma \dot{\nu} \nu)^2$ and Ion.

¹ Compare however the -n- ('eum') infixed in Old Irish (Z². 330).

² Tycho Mommsen 'Developement of certain laws for the use of the Greek prepositions μετά, σύν and ἄμα in the Epic writers' Frankf. 1874,

ξυνό-s = κοινό-s in their relation to the Lat. cum (com-, con-, co-), which is discussed thoroughly, with much from other languages thereto appertaining, by Pott ii1. 840-858, whatever we may think about the origin of the word, that the m of the Latin is the older, and the ν its representative, which made its way from the termination into the middle of \(\xi\nu\nu\nu'\nu'\nu\s.\) As to the initial consonant, we may refer to Ahrens 'Ztschr.' iii. 164, where from Greek dialects the forms κυμ-, κυν- (Κυν-ουρία = Confinium) and Cyprian κιν- (κιναύρου ψῦχος· τὸ ἄμα ἡμέρα Hesych.) are deduced with great probability. The notion that $\xi \dot{\nu} \nu$ has anything to do with Skt. $s\bar{a}k\acute{a}m$, derived from sa, is thereby rendered extremely improbable. - It is much the same with the numeral stem év discussed under No. 599, supposing that this is really akin to the \dot{a} - of \ddot{a} - $\pi a \dot{\xi}$ and $\ddot{a} \mu a$, όμο. The ν may have first established itself in the much used neuter ev, and from this have extended further. - Of the same kind is the ν of the two noun-stems $\chi \iota o \nu$ (No. 194) and $\chi \theta o \nu$ (No. 183). The Lat. hiem-s and χθαμαλό-ς show conclusively that the stems originally ended in m. Accordingly I agree with Brugman 'Stud.' ix. 308 in thinking that the v of the nominative passed from thence to the remaining cases. It is in favour of this that no stems in Greek end in μ while those in ν are countless. Hence it was easy for the analogy of $\delta \alpha i \mu \omega \nu$, δαίμονος, etc. to assimilate to itself the older χιών *χιομος.

But frequent as is the change from m to n when final, and as a result of this, in certain cases within a word, we cannot without further inquiry assume that it is so at the beginning or in the middle of a word. In the Romance languages, it is true, the interchange between m and n, referred to on p. 448, is recognized, and Slavonic instances, like the Sloven. Miklos = Nicolaus, must be taken into consideration. The connexion of the plural and dual pronominal st. na (Graeco-Ital. $n\bar{o}$, whence $\nu\hat{\omega}$ - \ddot{i} , $n\bar{o}$ -s) with the singular ma (Graeco-Ital. me) was until recently regarded as quite as undoubted as that of the Spanish mueso with the equivalent

p. 40, calls attention to the length of $\sigma \acute{\nu} \nu$ in Theocritus xxviii. 25 $\delta \acute{\omega} \rho \varphi \ \sigma \acute{\nu} \nu \ \delta \lambda \acute{l} \gamma \varphi$, and perhaps in Pindar 'Isthm.' vii. 46 $\varphi a \nu \tau \imath \ \gamma \grave{a} \rho \ \xi \grave{\nu} \nu$ (Hermann $\xi \acute{\nu} \nu \imath$) $\delta \lambda \acute{e} \gamma \epsilon \iota \nu$; and this certainly tends to link $\xi \acute{\nu} \nu$ with the Ion. $\xi \bar{\nu} \nu \acute{o} - s$.

Latin noster. Now strong resistance is offered to it. - Bopp 545 in the 'Gloss,' (cp. Pott W. ii. 2, 172) connected Lat. ten-ebrae with Skt. tám-as 'darkness.' The rt. tam is in use in Sanskrit also as a verb, with the meaning 'choke,' 'stagnate' ('Pet. Dict.'), and thus darkness is regarded as that which checks the movements and actions of men [cp. nox Nos. 93, 94]. From Sanskrit itself we have also tamas-á-s 'darkish,' tamas-á-m, tam-is-ra-m 'darkness,' 'gloom,' and further Zd. tem-aih (n.) 'darkness,' tem-aiha 'dark,' Ir. teime, temel 'obscuritas' ('Corm Gl.' p. 28, Z2. 768), Lith. tam-sà 'darkness,' tam-s-ù-s 'obscure,' ChSl. tim-a 'tenebrae,' OS. thim 'obscurus,' OHG. dem-ar 'crepusculum' [German Dämmer and (more common now) Dämmerung 'twilight:' Old Frisian and Old and Mod. Eng. dim, according to Grimm; cp. ONorse dinnur]. Corssen ('Beitr.' 263) connects ten-e-brae (cp. lat-e-bra, vert-e-bra, ter-e-bra) with tenere. But it cannot be proved that either tenere or the rt. tan meant 'cover,' as Corssen assumes, or that tenebrae meant originally 'confinement, 'prison.' The fact that the part. ta-tá-s can be translated, according to the 'Pet. Dict.' in certain applications by 'covered' by no means proves this, as Corssen 'Ital. Sprachk.' 290 assumes. Hence an adequate link of signification is wanting. On the other hand I agree with Lange ('Ztschr. f. österr. Gymn.' 1863 p. 302), that the rt. tam is retained with its m unchanged in tem-ere, which will thus mean something like 'blindly.' An entirely satisfactory explanation of the n in tenebrae is given by Brugman 'Stud.' ix. 393, where, employing the Italian change of s into f and within a Latin word into b, discovered by Bugge, he establishes *tene-s-ra (Lith. tamsra-s) *ten-f-ra as the primitive form.

The following are Greek roots and stems, in which ν has been conjectured, not altogether without probability, to have come from μ :

 $\beta a i \nu - \omega$, i. e. $\beta a \nu - \iota \omega = ven - i - o$, Skt. gam, Goth. qam p. 473. With $\beta a \nu$ agrees the Umbrian and Oscan ben. It is not impossible that from the rt. ga there came by two different determinatives ga - m, and ga - n (so Ascoli 'Lautl.' 101).

 $\dot{\eta}\nu$ -ia (plur.), later $\dot{\eta}$ $\dot{\eta}\nu$ ia, whence $\dot{\eta}\nu$ i-o χ o-s, is assigned by Benfey ii. 202 to the Skt. rt. jam 'hold,' 'rein in,' whence the

substantives $j\acute{a}m$ -a-s 'rein,' 'guide,' jan- $t\acute{a}$ (nom.) 'driver.' The meaning causes no difficulty. Kuhn 'Ztschr.' ii. 320, and Schweizer iii. 356 also agree. As to the formation of the word, the Homeric form $\dot{\eta}\nu$ -i0- ν falls under the analogy of diminutives such as $\xi \omega \nu$ -i0- ν , $\pi a i \delta$ -i0- ν , and therefore presumes a nominal st. $\dot{\eta}\nu$ 0 or $\dot{\eta}\nu\alpha$, the η of which may be explained as in $\lambda \dot{\eta}\theta$ - η by addition of sound. We must not overlook the fact, that the rt. jam meets us with another initial letter in the word $\xi \eta \mu i \alpha$, which we shall have to discuss below (p. 625), so that I have no great confidence here in the transition from μ to ν ¹.

i. 27 as certain. The former means rather 'stab,' the latter 'scratch,' two notions which are united in that of tearing open. The derivatives on either side are not numerous: νύξις, νυγμός, νύγμα, νύσσα —ἄμυξις, ἀμυχή. The gloss of Hesych. ἀμυκαλαί αἰ ἀκίδες τῶν βελῶν παρὰ τὸ ἀμύσσειν is worth noticing, inasmuch as it proves that κ is the letter of the root, and establishes the identity of the st. ἀμυκ with the Latin muc-ro(n). Still I should not like now to defend this comparison, especially as Fick i³. 645 refers νύσσω to a root akin to ὅνυξ, which we mentioned under No. 447. The interchange of angh and nagh is discussed there, the ν of νύσσω is akin to that of ὅνυξ, while OHG. nagan, ModGerm. nagen (cp. also ChSl. noži 'knife') preserves the a.

¹ My former comparison of the rt. θαν 'die' with the Skt. rt. dham (dhmā) 'blow,' although it might be supported by the analogy in meaning of Goth. us-an-an, exspirare, and especially by κέκηφε τέθνηκε, mentioned on p. 511, I abandon now, because it is more natural, with Windisch 'Stud.' vi. 259 and Fick i³. 640, to connect it with Skt. dhvan 'to veil one's self,' 'to be extinguished,' subst. dhvan (n.) 'gloom,' 'darkness,' dhvas 'to perish,' dhvasa-s 'destruction,' words which offer no phonetic difficulties. Also the comparison suggested by Benfey ii. 151 of κύανο-s 'blue steel,' κυάνεο-s 'of steel,' 'steel-blue,' 'blue-black' (κυανῶπις, κυανοχαίτης, κυανόπεπλος, κυανόπρωρος) with Skt. cjā-má-s 'black,' 'blue-black,' is doubtful to me, because here two phonetic transitions, which present difficulties, would be found together in the same word, in spite of κούαμα μέλανα Λάκωνες (Hesych.) where ov=v, which can never be shown to be the representative of a j, arouses doubt.

The other instances of this change, collected by Leo Meyer 'Ztschr.' viii. 136, are still more doubtful. In the assumed ενο-s' year' (τρί-ενο-s) the evidence in favour of the rough breathing is much too uncertain to enable us to compare the Skt. sámā 'summer,' 'season,' and the meaning is different besides. — It is probable that χλαμύ-s and χλαῖνα are connected. But the priority of the former is by no means self-evident. — We may finally mention the conjecture of Fick ii³. 20 that ἀνῖα 'plague' (ἀνιάω, ἀνιάζω, ἀνιαρόs) is identical with Skt. ámīνā 'plague,' ámīνa-m 'suffering,' 'pain.' This conjecture is favoured by the fact that no other etymology of ἀνία is to be discovered, while we must admit that the rt. am 'to be sick,' 'to suffer,' and the suffix ῦνα do not occur elsewhere in Greek.

One of the most difficult words here in question is yauo-s 'marriage,' with γαμείν (έ-γημα), γαμέ-τη-ς, γαμήλιο-ς, γαμβ-ρό-s. With a completely corresponding meaning Sanskrit has also the labial nasal in gamātr 'daughter's husband,' 'son-in-law,' gama 'daughter-in-law.' On the other hand in Lat. gen-er, which we can hardly make up our minds to separate from $\gamma \alpha \mu - \beta \rho \delta - s$, the n presents itself. The Lith. gen-ti-s 'consanguineus,' and ChSl. ze-ti 'gener,' words of 547 corresponding meaning, do not help to decide, because in these the nasal or the nasal after-sound might have come from m as well as from n. I have hence previously placed γάμο-ς under rt. yev, ya (No. 128), and here, as in Lith. gim-ti 'to be born, assumed the transition from n to m, while Ascoli 'Lautl.' 101 inclines to the view that from the primitive rt. ga came two independent further formations ga-n and ga-m. But further reflexion has led me to a different view. In Skt. we find the words jam-i-s 'related,' 'belonging to,' then like gama 'daughter-in-law,' vi-gam-an 'akin' (cp. vi-gamin) these completely recall the Lat. gem-ini, and exclude the connexion with gen 'beget,' for 'beget' and 'twins' are distinct conceptions. If we assumed it, we should have to derive with Bugge 'Ztschr.' xix. 423 gemini from *bi-gemini. Thus we are brought to a rt. gam, meaning 'unite together.' Attempts have been previously made (especially by Schweizer 'Ztschr.' xii. 307) to prove that this root is a phonetic variation of rt. dam 'bind' (No. 260). But

Bopp 'Gl.,' Benf. i. 460, Diefenbach ii. 193, though all introduce much that is unconnected. - Our words start from the rt. svar. whence comes the shortest form \(\Sigma_{\epsilon}\) in Suidas (Lobeck 'Paralipp.' 552 75), formed like χείρ (No. 189), and the fuller Σείρ-ιο-s (from scarja-s) in Archiloch. Frag. 61 Bergk³. The a of the first syllable is epenthetic, as in the Homer. θεμείλια, or like the v in πουλύ-s. This meets the objection of Max Müller ('Lect.' ii. 480). By the side of this rt. $\sigma \epsilon \rho$ for $\sigma f \epsilon \rho$ a form $\sigma \epsilon \lambda$ for $\sigma f \epsilon \lambda$ established itself in Greek. A third form, the affinity of which can hardly be questioned, is a in έλ-άνη 'torch,' perhaps in the proper name 'Ελένη [which M. Müller however identifies with sarama, deriving the latter from rt. sar 'go' (No. 502) 'Lect.' ii. 463]. — On the other hand είλη beside ἀλέα 'warmth of the sun' (Hesych. βέλα, ήλιος καὶ αὐγή ὑπὸ Λακώνων), but also γέλαν, αὐγὴν ἡλίου (Hesych.), is better separated from this root with Fick i3. 772. Fick compares the words with the ChSl. var-u 'heat.' to which we return on p. 587.—As in Greek, so in Latin the liquid has been preserved in both forms. To the forms in r belong perhaps Apollo Sor-anu-s and the name of the mountain Soracte, in Cato (ed. Jordan p. 11) Sauracte. Cp. Preller 'Röm. Myth.2' 239. - The northern languages have only l. — The complete distinctness of these words from ηέλιο-s, later ηλιο-s, has been proved 'Ztschr.' i. 29 ff. (cp. above on No. 612). - The Keltic words (Z2. 107, 250) seem to point to an original savali. [Cp. Corssen i2. 136].

> 664. Root σκάλ σκάλλω scrape, dig, σκαλ-ί-s hoe, σκαλεύ-s hoer, σκάλ-μη knife. — OHG. scar ploughshare [AS. scăr or scear].

Pott W. ii. 1, 685, Benf. i. 197.— Cp. No. 106 and Kuhn 'Ztschr.' iii. 427.

In addition to these instances, which we may put down as certain, there are also the following, which carry with them great probability, though they are still exposed to doubts of various kinds.

γλαμυρό-s or γλάμων 'blear-eyed,' with the verb γλαμῶν and the equivalent λημῶν, λήμη, which have lost an initial γ, and which were regarded by the Atticists (Moeris p. 193 Bekk.) as less good Attic, undoubtedly corresponds to the Lat. gramia, gramiosus (Pott i¹. 117); but as glamae is also found in the same sense (Paul. 'Epit.' 96), the Latin word may be suspected of having been borrowed. — Otherwise Bezzenb. 'Beitr.' i. 339.

 $\xi \lambda \mu \iota - s$, $\xi \lambda \mu \iota \nu - s$ (st. $\xi \lambda \mu \iota$ and $\xi \lambda \mu \iota \nu \theta$), by-form $\xi \lambda \mu \iota \gamma \xi$ (st. έλμιγγ cp. Lobeck 'Paralipp.' 167) 'intestinal worm,' has been often (Pott i1. 84, Bopp 'Gl.') compared with Skt. kými-s 'worm,' Dat. vermi-s, Goth. vaúrm-s 'serpens,' Lith. kirmi-s (kirmělé), ChSl. črůví 'worm,' OIr. cruim (Z2. 250). Stier ('Ztschr.' xi. 247) adds also Albanian words. All the forms might be explained from a primitive karmi-s, by supposing that from this first kvarmi-s was developed, then, in Gk., Lat., and Teut., varmi-s, and thence Fελμι-s (Corssen 'Nachtr.' 33). But as no certain instance of the mutilation of an initial kv to v in Greek has been pointed out, the connexion of the forms beginning with k and with v respectively remains doubtful. With Aufrecht (on 'Uggvaladatta' p. 276) therefore I only maintain with certainty that Skt. kimi-s, Ir. cruim, Lith. kirmi-s, and ChSl. čruvi [cp. p. 578] are identical, and that vermi-s and Goth. vaurm-s are mutually 553 akin. But it seems to me that even the identity of the word ελμι-s (cp. p. 564), which is rare and restricted to one species of worm, with the common vermi-s, which includes the whole genus, is not yet indubitable. (Otherwise again Fick i3. 771.) Aufrecht takes Feλ 'wind,' 'curve' (No. 527) as the root, but this has elsewhere always an l in Latin and Teutonic. The $\nu\theta$ of the st. $\dot{\epsilon}\lambda\mu\nu\theta$ is evidently, like the $\gamma\gamma$ of the rarer έλμιγγ, of a diminutival character (cp. above p. 495).

 $\lambda \hat{a} - \alpha s$ (for $\lambda \hat{a}F - \alpha - s$) 'stone,' with the by-form $\lambda \epsilon v - s$, to be deduced from $\lambda \epsilon \hat{v} - \omega$ 'stone,' $\lambda \epsilon v - \sigma \tau - \delta - s$, $\lambda \epsilon v - \sigma - \mu \delta - s$, $\lambda \epsilon v - \sigma - \tau \hat{\eta} \rho$, which with the irregularities of inflexion points to an old stem $\lambda \bar{a}F$, has been compared by Bopp 'Gl.,' Benf. ii. 8 with Skt. $gr \hat{a}v an$ 'stone for squeezing out the Soma-juice,' and then 'stone' in general, and with Lith. $r\dot{e}v\dot{d}$ 'rock,' 'cliff.' As the Ir. broo 'millstone,' corresponds to the Skt. $gr \hat{a}v an$, the comparison with the Skt. word is very uncertain, especially as the loss of an initial γ (cp. $\lambda \hat{\eta} \mu \eta$ above) is quite rare. Bezzenberger 'Beitr.' ii. 271 attempts a new, but by no means satisfactory combination.

λύσσα 'rage,' 'rabies' (of dogs) (Att. λύττα), whence come λυσσάω, λυσσαίν-ω, λυσσητήρ, λυσσώδης, λυσσο-μανής, etc., is connected by Bopp 'Gl.' and Benf. ii. 5 with Skt. rush 'to be angry,' (pres. rōshā-mi and rúsh-jā-mi), subst. rush

(f.) 'anger,' 'rage.' λύσσα would be for λυσ-j-α. Cp. Ascoli 'Krit. Stud.' 343. As a connexion with λύκο-ς (No. 89) is possible, I place this comparison among the doubtful ones.

We must now take a general survey of the mutual relations of the two liquids. On p. 83 we held it to be advisable to treat ρ and λ as sounds nearly akin and frequently interchanging, but not as sounds which had only developed in this duality after the separation of the languages from a single Indo-Germanic liquid r^1 . We preferred to assume even for the Indo-Germanic period, by the side of the stronger trill, which is the older, wherever there is a variation between them, the existence of the gliding sound l. This view is 554 confirmed by the numerical proportions of the occurrence of both sounds. About three-fourths of the whole number of liquids remain unchanged, one-fourth varies and fluctuates.

With regard to the liquids which remain unchanged, those instances are especially noteworthy, in which either r or l is found in a long list of languages, without the slightest tendency to a variation. We may quote as examples of ρ

No. 490 ἀροῦν Lat. arare, Goth. arjan, Lith. árti, Ir. airim.
" 492 ἐρέσσειν Skt. ar-i-tra-m, Lat. rēmu-s, ON. år, Lith.

- ., 39 καρδ-ία Skt. hrd (?), Lat. cor, Goth. hairth, Lith. szirdis, Ir. cride
- , 411 φέρ-ω Skt. bhárāmi, Lat. fero, Goth. baíra, ChSl. berg, Ir. do-biur,

for λ

No. 31 καλό-ς Skt. kalja-s, Goth. hail-s, ChSl. celit

- , 546 λίω Skt. lū, Lat. (so)lu-o, Goth. lau-s
- " 536 b λάπτω Lat. lambo, OHG. lefsa, Lith. lùpa

¹ The existence of an l in the time before the separation of languages is maintained by Heymann in his essay 'The l of the Indo-Germanic language belongs to the Indo-Germanic primitive language' Göttingen 1873. The writer distinguishes an l belonging to the primitive language from that which subsequently arose out of r.—Armenian agrees in its l with the European, as Hübschmann 'Ztschr.' xxiii. 35 shows.—How here and there the choice between r and l was determined by contiguous syllables $(d\rho\gamma\alpha\lambda \hat{\epsilon} os$ beside $d\lambda\gamma os$) is shown by Bechtel in his doctoral dissertation 'On mutual assimilation and dissimilation of the trills' Gött. 1876.

No. 236 rt. τελ, ταλ, τληναι Skt. tul, Lat. tuli, Goth. thulan, ChSl. tulŭ.

I see no reason why we should not, in stems and roots like these, assume that the liquid which we find universally was Indo-Germanic. — It is true that there is also a considerable number of words, in which Sanskrit shows the harder liquid, while the softer appears in Greek. But it is rare for Greek to stand isolated: as a rule Latin, and often another European language besides, agrees with it, e.g.

No. 61 κλόνι-s Lat. clūni-s, Lith. szlauni-s, but Skt. groni-s

- 62 κλύ-ω Lat. clu-o, Goth. hliu-ma, ChSl. slu-ti, but Skt. cru
- , 366 πίμπλημι Lat. ple-o, Goth. full-s, ChSl. plŭ-nŭ, OIr. lá-n, but Skt. píparmi
- " 563 ώλένη Lat. ulna, Goth. aleina, OIr. uile, but Skt. ar-atní-s.

In such cases therefore the l may have been developed only after the severance of the other families from the Indian, or the Indo-Persian. It is very rare for an r to be found at all in the European languages, which is represented in Skt. by l: the instance formerly quoted here for this: λακείν Lat. loqu-i, Skt. lap, ChSl. rek-a, we saw under No. 85 that we could not maintain, chiefly because of the Skt. p. If there are any such cases, we have a choice between two views. Either we must admit the change of r into l in Sanskrit too. and of this we quoted instances from the Romance languages on p. 449, while it is common in the modern Cretan dialect as compared with ancient Greek (Voretzsch 'De Inscript. Cret.' p. 28, from Pashley), or one European language has here accidentally preserved the older sound [sic: but there is here some error in the text]. Considering the great rarity of this relation (cp. OHG. ringi under No. 168 [ru-m-p-o under Nos. 331, 341]) we may lay it down as a rule not readily to expect an r in the other languages, corresponding to a Sanskrit l. To admit this phonetic representation, the agreement in the other sounds of the word and in the meaning 555 must be very striking. This is e.g. by no means with the comparison, proposed by Christ p. 17, 'black,' a word moreover only quoted by grams

the etymon of $\kappa \delta \rho a \xi$, with Skt. $k \bar{a} l a$ -s 'blue-black.' The words belonging to $k \bar{a} l a$ -s we collected under No. 46, those akin to $\kappa \delta \rho a \xi$ under No. 69.

Without entering more particularly upon the further differences of the several families of speech and individual languages on this point, we may add some remarks upon the relation of the Greek liquids to the Latin, and upon the variation between ρ and λ in Greek itself. The close kinship of the two South-European languages comes out also in this respect. For example, the relation of the Graeco-Italic rt. melg to merg (Nos. 150, 151) is significant. The Indo-Germanic rt. marg as early as the Graeco-Italic time split into two forms: merg (ἀμέργω, ὁμόργ-νυ-μι, merga) and melg (ἀμέλγω, mulgeo) and that in such a manner that the difference of meaning is just as clear as its original identity. As the northern languages have preserved only the form with l, it cannot be determined whether this division is not still older. - χλό-η (No. 197), χλωρό-ς corresponds to the Lat. hel-us, hol-us, to the Lith. žol-ė 'cabbage,' žál-ie-s 'green,' ChSl. zelije 'holera,' Ir. gel 'white,' but to the Skt. hár-i-s, OHG. grô-ni. The l is therefore in this instance Graeco-Italo-Kelto-Letto-Slavonic. [But Fick 'Ehemalige Spracheinheit' p. 237 omits grôni and adds OHG. gëlo, gëlaw-êr 'yellow,' adding 'the Arian base of this group is har, the European ghal, ghel']. — The rt. άλφ 'earn,' 'work' has at its side the Latin lab with an l (No. 398), while all the other languages, with the possible exception of the Lithuanian, show r. Under No. 468 we saw that the rt. μαρ (μαραίνω) appears with this sound in mar-c-e-o, while for the meaning 'fade' Skt. has the rt. mlāi or mlā, with which perhaps the German welk [used in English by Spenser and Milton] is connected. Here the Graeco-Italic peculiarity is shown in the preservation of the old r. Such an agreement is not, indeed, everywhere to be found. We compared χάλαζα (No. 181) with grando, χελιδών (No. 187) with hirundo, κολεκάνος (No. 67) with cracentes, βάρβαρο-ς (No. 394) with balbu-s, stlā-tu-s with rt. στορ, στερ (No. 227) in spite of the difference of the liquids. But these cases are rare, and as a rule we can detect some uncertainty in the liquids, either within the Latin language, as in the instance last-mentioned, where strā-tu-s occurs, or, as

with λάκος, ράκος (No. 86) in Greek itself. Thus though we have Gk. κύκλο-ς (No. 81) corresponding to the Lat. circu-s, we find also κίρκο-ς. We must compare curvu-s, not only with κυλλό-ς, which belongs to the same root, but also with κυρ- 556 τό-s. In this case we have in Latin also the softer liquid in clingere, cingere (Fest. p. 56), which is derived from this root; to this form Dietrich called my attention in his review (Jahn's 'Jahrb.' 81, 40). Lat. vellus seems to come nearer to the Goth. vulla than to the Gk Fép-10-v (No. 496), but by the side of this we have the more similar οὖλο-ς. — On the other hand λ is predominant in Gk. χολάδες, χόλιξ (No. 199), compared with Lat. haru-spex, hira, but we have also the latter sound in Gk. $\chi o \rho - \delta \dot{\eta}$. — Of the three forms $\sigma \tau \lambda \epsilon \gamma \gamma i - s$, $\sigma \tau \epsilon \lambda \gamma - i - s$, $\sigma \tau \epsilon \rho \gamma - i - s$ (No. 576) the last comes nearest to the Lat. strigili-s. The facts being such, the following rule holds good for the comparison of Greek words with Latin; that we are always to expect r for r, l for l; and that exceptions are only to be admitted when the probability on other grounds is especially great.

Finally, it has often been observed in ancient and modern times, that in Greek itself the two liquids are interchanged. The rt. kar 'call,' 'praise' (kar 2 in the 'Pet. Dict.') is represented on the one hand by κηρ-υξ 'herald,' an expansion from the stem preserved in the Skt. kār-ú-s 'singer of praises,' on the other by the widely ramified form καλ (καλέω) No. 29 b, which appears also as Italic, Teutonic, and Irish. In two widely extended stems the interchange of the liquids has actually made its way into the inflexion of verbs. The stem έλ-θ has been already mentioned under No. 661, and on p. 65 divided into èλ (Homer. έλ-υ) with the determinative θ. έλ-θ is to $\hat{\epsilon}\lambda$ as $\varphi\theta\iota-\theta$ ($\tilde{\epsilon}-\varphi\theta\iota-\theta-o-\nu$) to $\varphi\theta\iota$. The ν is to be regarded as an anaptyctic vowel, like the ϵ of $\nu \epsilon \mu - \dot{\epsilon} - \theta - o - \nu \tau o$, $\phi \lambda \epsilon \gamma - \dot{\epsilon} - \phi - \phi \lambda \epsilon \gamma - \dot{\epsilon} - \phi - \phi \lambda \epsilon \gamma - \dot{\epsilon} - \phi - \phi \lambda \epsilon \gamma - \dot{\epsilon} - \phi - \phi \lambda \epsilon \gamma - \dot{\epsilon} - \phi - \phi \lambda \epsilon \gamma - \dot{\epsilon} - \phi - \phi \lambda \epsilon \gamma - \dot{\epsilon} - \phi - \phi \lambda \epsilon \gamma - \dot{\epsilon} - \phi - \phi \lambda \epsilon \gamma - \dot{\epsilon} - \phi - \phi \lambda \epsilon \gamma - \dot{\epsilon} - \phi - \phi \lambda \epsilon \gamma - \dot{\epsilon} - \phi - \phi \lambda \epsilon \gamma - \dot{\epsilon} - \phi - \phi \lambda \epsilon \gamma - \dot{\epsilon} - \dot{\epsilon} - \phi \lambda \epsilon \gamma - \dot{\epsilon} \theta$ - ω , or the v in T- \dot{v} - $\mu\omega\lambda$ os = $T\mu\hat{\omega}\lambda$ os (Lobeck 'El.' i. 477), and is found even in forms which, like $\pi\rho\sigma\sigma$ - $\eta\lambda\nu$ - $\tau\sigma$ -s, $\xi\pi$ - $\eta\lambda\nu$ -s, are formed without 0. The rt. & may be regarded without hesitation as a later by-form of ep, and corresponds to the Skt. ar 'go,' 'attain.' It is the same root which we met under No. 500 and in the forms there given as cognate. — The older form èp underlies the present stem èp-y. The x has arisen from the inchoative σ_{κ} in accordance with an analogy

to be further discussed on p. 701. έρ-χ-ο-μαι therefore means properly 'I begin to go,' and corresponds to the Skt. arkh 'attain,' 'fall to the share of' (Benf. i. 63), where the kh, likewise limited to the present stem, also goes back to sk, and enables us to deduce the Indo-Germanic form ar-sk (cp. Leo Meyer i. 345). - From the same root, by means of a determinative s, er-s was formed, Lat. err-or (for ers-or), errare, Goth. airz-jan πλαναν, Mod. Germ. irren (Benf. i. 62, L. Meyer i. 397). Joh. Schmidt 'Voc.' ii. 459 shows also the connexion with Goth. ur-reis-an and Skt. arsh 'flow.' We may add 557 παλίν-ορσ-ο-ς, άψ-ορ-ρο-ς. But we must keep distinct Gk. έρρω, because it shows clear traces of the digamma (βέρρης Ahr. 'Dor.' 46, ἐνθάδε Γέρρων Θ 239, Knös 100). — On the other hand we cannot but refer άλ-η 'wandering,' άλασθαι 'to wander, άλέη 'avoidance, άλεείνειν 'avoid, άλεύασθαι 'shun,' ήλεός, ήλός 'astray,' 'confused,' with ήλίθ-ιο-ς 'foolish,' ήλασκ-άζειν 'stray,' 'escape,' and άλάσ-τωρ properly 'scarer,' 'driver,' then 'spirit of revenge' (cp. Keck on Aesch. 'Ag.' p. 18), to a rt. άλ, which is originally identical with ar, άρ, έρ, όρ, έλ. We can however hardly regard it as accidental, that the gliding sound should have attached itself just to the words with this signification. Το ἡλίθιο-s I added also ἡλ-ι-τ-ο-ν 'I went wrong,' 'sinned,' which is connected in meaning, and the τ of which is justified as a formative element ('Greek Verb' p. But certainly άλιτείν, άλιτέσθαι, άλείτη-ς άλιτρό-ς have in Homer a more energetic force. Hence the notion of Fröhde in Bezz. 'Beitr.' iii. 17 to connect the rt. Air (with prothesis ά-λιτ) with Goth. sleitha 'mischief,' sleith-s 'bad,' ga-sleith-jan 'damage' is worth consideration.

It is more difficult to analyse αἰρέω and εἶλον. The augment of the aorist leads us to infer an initial consonant ('Greek Verb' p. 85), so too ἀπο-αιρεῖσθαι Α 230, ἀπο-αίρεο Α 275 compared with ἀφαιρεῖται Α 182 and ξέλωρ, ξελώρια, as I. Bekker writes to avoid hiatus (Α 4, Ε 684). In Alcaeus (Fr. 68) Bergk formerly read ἐκξέλετο instead of the senseless ἐκ δ' ἔλετο of the MSS., now (ed. 2 and 3) he has accepted I. Bekker's ἐκ σ' ἕλετο. Neither the one nor the other can be established. The meaning makes it dangerous to connect this stem with No. 659, for the notion is always that of grasping,

taking. It is certain on the other hand that the root of aiρίω (which is doubtless for aρ-j-ω), is to èλ just as èρ is to èλ. And thus the form aφαιλησέσθαι is extremely remarkable: it is to be found now on a Cretan inscription ('De Inscript. Cretensi' scr. Rich. Bergmann: Gratulationsschr. des Brandenb. Gymn. zur Berliner Jubelfeier 1860), and forms the bridge between aiρέω and είλον. From the cognate languages nothing corresponding has been adduced, except the Goth. vilvan 'rob' compared by Fick i³. 778, to which belongs also vil-v-a 'robber,' where the v recalls that of Lat. vol-v-v, Goth. val-v-jan. In meaning έλωρ corresponds most closely, as in Lat. vol-tur, vul-tur 'robber,' and the ω possibly has come from fa, so that in form too the word comes nearer to the Gothic form. — καλύπ-τειν, which on p. 589 was connected with cel-u-re, can hardly be separated from κρύπτειν, as will be seen.

Besides these words we may also refer to $\lambda \epsilon \beta i \nu \theta i \sigma$ and $\epsilon \rho \epsilon$ - $\beta i \nu \theta \sigma i$ (No. 494), rt. κλυ and $\epsilon - \kappa \rho \sigma - \epsilon - \sigma - \mu \alpha i$ (No. 62), to $\epsilon \lambda \kappa$ and $\epsilon \rho \kappa$ (No. 7), $\epsilon \lambda \delta \sigma$ and $\epsilon \rho \delta \sigma$ (Lobeck 'Rhem.' 23), $\epsilon \delta \sigma$ and $\epsilon \delta \delta \sigma$ (No. 53) and Lat. cul-ter, $\epsilon \delta \delta \sigma$ and $\epsilon \delta \delta \sigma$ and $\epsilon \delta \delta \sigma$ (No. 466), $\epsilon \delta \sigma$ and $\epsilon \delta \delta \sigma$ (No. 103), $\epsilon \delta \sigma$ and $\epsilon \delta \delta \sigma$ and (No. 238), $\epsilon \delta \sigma$ and $\epsilon \delta \sigma$ (No. 202) and the deductions of Lobeck 'Path. Prol.' pp. 135, 279, 'Elem.' i. 502. $\epsilon \delta \sigma$ derive from the st. $\epsilon \delta \sigma$ denical with $\epsilon \delta \sigma$ (cp. $\epsilon \delta \sigma$).

D. Sporadic changes of the Spirants.

Nothing is so characteristic of the Greek phonetic system as the aversion to the spirants. Of all the consonants these are exposed to the most numerous and various changes. Since the change of an initial σ to the spiritus asper and the expulsion of σ between two vowels, the latter of which processes was probably preceded by the former, have been treated by us as regular phenomena, there remain only the two spirants v and

¹ Bechtel (see note on p. 553) makes assimilation or dissimilation decide between r and l in polysyllables. Perhaps it was so with the Gk. suffixes ρ_0 and λ_0 (Lucian 'jud. voc.' § 4, gives $\kappa_0 \phi_0 \lambda_0 \rho_0 \gamma_0 i_0$ for $\kappa_0 \phi_0 \lambda_0 \lambda_0 \gamma_0 i_0$). But this is not saying much. No change in fact defies rules so much as that just discussed.

inscription of Arniadas (Cauer's delectus No. 23), 1. 3, Βακεύξα (Boeotian, 'C. I. G.' 1639). Perhaps Hartel is right in assuming (p. 38) the converse of this, i. e. Fu for v in the case of the much discussed τοῦ ἀΓυτοῦ on the inscription from Naxos 'C. I. G.' 10) in spite of Kirchhoff Stud. z. G. d. Alphab.3' 73. The dialect which shows most such developements, both of F from v, and also of v from F, is the Cyprian. Thus we find κατεσκεύξαζε, Εὐξαγόρω (Deecke-Siegismund 'Stud.' vii. 222). which have as much right to be called midway forms between σκευάζω and *σκε Γαζω (written σκεάζω) as conversely εύρρητάσατυ (tablet of Idalion 1.4) a midway form between έξρητασατυ (ibid. l. 14) and a possible Lesbian *εύρητάσατο (rt. Fep. Fρε 'speak') which the analogy of εὐράγη would lead us to expect. In the latter case a vowel analogous to the F attached itself naturally to the e. The variety in the way of writing the word points to the fact that v can hardly have been a fully developed sound, but that we have here a case where affections of spoken sounds were imperfectly rendered in writing.

2. o or ω as a representative of the F.

The change of F into o or w has at first sight the appearance of an anomaly, and for this very reason my assumption of this change has met with strenuous opposition especially on the 571 part of Hugo Weber ('Jahn's Jahrb.' 1863 p. 602, 1865 p. 550) and of Voretzsch in his work 'De inscriptione Cretensi' so often referred to. Hugo Weber's objections culminate in the words: 'since it appears that in Greek a v, i.e. u, has arisen from an old o, and not o from v, the supposition of a change of v or F to o is by this one fact shown to be baseless. There is an error here. It is true that v is etymologically = u, but phonetically it is not. There can be no question that v arose in a comparatively late period of language from u by attenuation, and it is true that v has become the normal representative of the older u, and no one would think of expecting an ordinary o as the representative of this favourite sound. But the versatility of sounds rebels here, as elsewhere, against the narrow boundaries within which H. Weber wants to confine it. Even after the introduction of the later alphabet the sound u was never expressed by the originally diphthongal ov

with complete consistency. In countless instances the stonemasons still had recourse to o, which, especially in the Ionic dialect, must have come uncommonly close to ov in its pronunciation. Otherwise how are we to account for the contraction of oo, oe, and eo to ou? For Greek dialects we may conjecture that v retained more often the sound of u, and this is certainly the case, as Ahrens has shown, with Cyprian, a fact for which the above-mentioned phonetic developments have already prepared us. The change of an old u to o in this very dialect has been established, e.g. in $\pi \epsilon \pi \sigma \sigma \mu \alpha \iota = \pi \epsilon \pi \nu \sigma \mu \alpha \iota$, $\epsilon \rho \acute{a} \tau \circ \theta \epsilon \nu = \epsilon \rho \acute{\eta} \tau \upsilon \theta \epsilon \nu$ (Mor. Schmidt 'Ztschr.' ix. 366). That is to say, instead of the attenuation of the old u to \ddot{u} that is customary in the other dialects, a different pronunciation is here introduced, which was at any rate very near to that of the o. — For the diphthongs αv and ϵv (the subsequent change of which to av and ev necessarily presupposes an au, eu and not aü eü) we find the letters co, and this co the metre sometimes proves to be a true diphthong, e. g. έμ φάρεσι λεοκοίς at the close of a hexameter (Keil 'Rhein. Mus.' xix. 258), and on the same inscription from Priene Keil fills up a gap as follows: NA(0) AOXON. On Samian inscriptions av and ev are consistently written ao and eo (Carl Curtius 'Inschr. z. Gesch. v. Samos' Lübeck 1877 p. 26) e. g. ταοτα, ἐόνοιαν, and this way of writing the sounds was very common in other Ionian towns as well in the third and fourth centuries B.C., as is pointed out by the same writer. Here too we must consider the writing of so to be an attempt at representing to some extent the old u sound, in a case in which ov could not possibly be used. Since then, as we saw at p. 562, F had a sound apparently almost the same as an irrational u, why should we be surprised if, in a period in which the character F fell into disuse, 572 we occasionally find its place taken by o? — In ὄγδοον when used as a disyllable in Homer (see p. 536), o is phonetically half vowel, half consonant, like the v in δακρύοισι (σ 173). The sound of the o came almost as near to that of the semivowel v as that of the v did. This is also proved by the tolerably frequent transliteration (mentioned at p. 563) of th Lat. v by o in Latin words; e.g. the constantly occurri Κόϊντος (also Κύντος, Lobeck 'El.' ii. 24, and Κίντ

 ${}^{\prime}Oa\lambda\epsilon\rho\iota os$ ('Inscriptions recueillies à Delphes' No. 17, 1.87). It took a considerable time for the cumbrous ov to establish itself in its place. This is enough to show, I think, that our hypothesis has a definite foundation after all. There is a difference between sounds which, like the F, began to disappear early, leaving however some traces behind, and those which remained in existence always. The former assume all sorts of different shapes. We must not cut everything after the same pattern, nor imagine that we can exhaust the changes of sounds in a few rigid formularies. The change of F to o has the clearest parallel in Old High German, e. g. $sn\ell o = Goth. snaiv-s, falo$ gen. falwes, where the oldest records have the u still. Here no doubt o arose immediately from u, but this applies to Greek as well, the only difference being that, as Greek had no simple character for u the intermediate step was never written.

After having thus examined generally the probability of this change of sound, which we assert, we must now apply the test to particular instances. We shall begin with a word of which hitherto no other tolerably credible explanation has been proposed: δοάν in Alcman (Bekk, 'Anecd.' 949, 20). This word has already been considered by Buttmann 'A. Gr.' i. 44 in its connexion with the lengthening of the vowel before $\delta \hat{\eta} \nu$ and $\delta \eta - \rho \hat{o} - \nu$ usual in Homer 1 ($o \hat{\nu} \delta' \hat{a} \rho \in \tau \iota \delta \hat{\eta} \nu$, etc.). and referred to SFav, SFnv. With Benfey (ii. 209) and Leo Meyer ('Ztschr.' vii. 216) we consider this δFaν as a shortened form of $\delta \iota F \bar{\alpha} \nu$ the accusative from the stem $\delta \iota F \alpha$ 'day' = Lat. die for dive (No. 269). This stem can therefore be regarded as Graeco-Italic in the form divā. Sanskrit knows only diva-m (neut.) in the sense of 'sky,' 'day,' and div, dju (regularly masc. in the Vedas) with the dat. div-e, the instrumental div-a 'by day.' That the notion 'a long time' can grow out of this stem is shown by the Lat. diū (cp. inter-diu) and the Skt. in-573 strumental plur. dju-bhis = diu. While Latin keeps both sounds only in $di\bar{u}$, and elsewhere now the i, now the v(u) of this stem: die-s, tri-du-u-m, $d\bar{u}$ -dum, the ι has disappeared in Greek without a trace, and the acc. δ Faν, δοάν, δήν—properly 'a day long'-come into use as an adv., with which again δηρόν, δηθά, δηναιός are connected.

¹ Cp. now Hartel 'Homerische Studien' i2. p. 13.

The relation which δοάν bears to the Lat. diem seemed to be the same as that of the Homeric δοάσσατο 'seemed' to the imperf. δέατο (cp. No. 269). Hesychius's δεάμην έδοκίμαζον, έδόξαζον, δέαται δοκεί have received a remarkable confirmation from an inscription. The inscription of Tegea, edited by Michaelis (Fleckeisen's 'Jahrb.' 1861 p. 585), gives us the conjunctive to it δέατοι, the first time after εί καν, the second time after őoa av. We can accordingly assume with certainty a middle verb $\delta \epsilon - \alpha - \mu \alpha \iota$ 'I seem,' the α of which, like that of έρα-μαι, is lengthened in the conjunctive (cp. έραται Pind. 'Pyth.' iv. 92, 'Gk. Verb' p. 318). The question arises how are we to connect these two synonymous verbal forms. My former view was that from $\delta \iota F \alpha$ arose on the one hand by syncope of the i SFa and subsequently Soa, which had a form δοάσσατο as άγα had άγάσσατο, on the other hand by expulsion of $F \delta i\alpha$ and, on the analogy of forms to be discussed later, $\delta \epsilon \alpha$, whence $\delta \epsilon \alpha \tau o$. It is clearly against this hypothesis that it supposes the same set of sounds to have been treated in two different ways. On the other hand Fick's interpretation (i3. 620) is recommended by its simplicity. He derives δέα-ται from the shorter rt. di 'seem,' making it stand for *δι-α-ται. It is true he says nothing about δοάσσατο. It is possible that this agrist form may have belonged to a present *δοάζω formed from a nominal stem *δοα for *δοια, which last could have come from a rt. & by addition of sound, just as the * σκοια we arrived at at No. 112 as an expansion of the rt. okt. I therefore no longer regard this aorist as a certain instance of o = F. — On δοιοί see p. 239.

Of $\zeta \delta \alpha \sigma \sigma \nu$ $\sigma \beta \dot{\epsilon} \sigma \sigma \nu$ (Hesych.) M. Schmidt's explanation is that ζ here represents the soft sibilant, which was usually denoted by the less appropriate character σ , while the σ like the β had its origin in the F. (Compare at the same time the form $\zeta \dot{\epsilon} \dot{\nu} \nu \nu \mu \dot{\epsilon} \nu$ $\sigma \beta \dot{\epsilon} \nu \nu \nu \mu \dot{\epsilon} \nu$ (Hesych.), which has lost the ν sound altogether.) But while many conjectures have been made of very different kinds about this root (particularly by Joh. Schmidt 'Ztschr.' xxiii. 300, Fick i³. 603 and now by Brugman 'Forsch.' i. 19) no relationship can be said to have been definitely established for it, and consequently the explanation that the σ has come from ν has only a certain

amount of probability in so far as both o and β may have come from v.

The frog's croak κοάξ corresponds to Eng. 'quack' and 574 Ovid's 'sub aqua, sub aqua maledicere tentant' ('Metam.' vi. 376). The Latin coaxare is perhaps only an imitation of κοάξ. Just so the sucking pig's κοίζειν corresponds to Eng. squeak (Bohem. kvič-e-ti 'grunnire'). Windisch points out to me that by the Indians the frog's note is rendered by akhkhala ('Rig-veda' vii. 103, 3).—Cp. Etrusc. Vilatas='Οιλιάδης, Jordan 'Krit. Beitr. Z. Lat. Sprache' p. 52.

Another case in point is the Cretan town "Oakos (Ahr. 43, Boeckh 'C. I.' ii. p. 401), as Steph. Byz. calls it, whose inhabitants are called Fágioi on coins, while elsewhere the common form of the name is "Agos. Apollon. Rhod. i. 1131 calls the country Olagis, using, that is, or to represent the F where he wants a long syllable, a diphthong which in his time differed but little from v in sound. Steph. Byz. gives ayyvai (No. 654 b) as the etymon, and tells us that άξός is the dialectic equivalent for άγμός 'precipice,' 'breach.' In these words as in Köivtos the accent should be noticed, as it has found its way to the new syllable. To this view Hugo Weber and Voretzsch p. 7 oppose another, built mainly on the extraordinary form CAYΞIΩN 'C. I.' No. 3050. But this form actually occurs only in the subscription, while in the text, which is disfigured by extraordinary blunders, we find ≤AYΞIΩN at several places. This Faûξos, we are to believe, arose from Fá-Fagos as also "Oagos, "Agos. But in substantives, with the exception of onomatopoetic words, reduplication, and that too by means of the heaviest vowel a, is by no means of so frequent occurrence that we may venture to assume it offhand; and the only support of this assumption is, as we see, not exactly a strong one, inasmuch as the Cretan inscriptions from Teos have all come down to us in a very imperfect form, and hence should be used cautiously for etymological purposes (cp. Ahrens 16). The αυ in EAYΞIΩN might be the representative of a duller α sound, as it must be taken to be in the Thessal. δαύχνη for δάφνη mentioned at p. 482.

The Locrian town Οἰάνθη or Οἰάνθεια is in Plutarch

also called 'Yáνθεια (Ross 'Lokr. Inschrift von Chaleion u. Oiantheia' p. 14). — Unless we are to regard 'Y as a mere copyist's mistake, the easiest course is to explain the word to be $F\iota$ - $\alpha\nu\theta\eta$ 'violet-flower,' and hence the equivalent of the proper name ' $I\acute{\alpha}\nu\theta\eta$ (No. 590), and even to derive $\dot{\nu}\acute{\alpha}\kappa$ - $\iota\nu\theta$ o-s, with a twofold diminutive ending, from the same stem $F\iota$ o.

In the place of the forms $Oi\lambda\epsilon \acute{v}s$, $Oi\lambda \acute{u}\acute{a}\delta\eta s$ recommended by Aristarchus, Zenodotus (Düntzer 'De Zenod. stud.' 50) read ' $I\lambda\epsilon \acute{v}s$, ' $I\lambda \acute{u}\acute{a}\delta\eta s$, and this was the form used by many later writers, especially by Stesichorus. It is certain that here too the primary form was $Fi\lambda\epsilon \acute{v}s$, which is easily explained by $Fi\lambda\eta$ 'troop' (p. 564). The o in this name, which is established for Homer by the metre, proves the antiquity 575 of the change of F to o.

The relation of $oi\sigma$ - \dot{v} - α , $oi\sigma\sigma$ -s to $fi\tau\dot{\epsilon}\alpha$, $fi\tau vs$ has been already discussed at No. 593. No one ever heard of i changing to oi, hence o must stand for f.

Perhaps the same stem may be traced in the name of the Lacedaemonian town $O(\tau \nu \lambda)$ variously written $B \epsilon (\tau \nu \lambda)$, $B \epsilon (\tau \nu \lambda)$ (Ahrens 'Dor.' 46). It is clear at any rate that the O and the B here arose from F.

The Thessalian 'Ολοοσσών, later 'Ολοσσόνες — cp. Lob. 'El.' i. 471 — probably owes its double o to a F. Cp. No. 527.

The name of the Cretan town 'Ολισσήν with the byform Βλισσήν ('Ahr.' 50) seems to contain an initial o of the same kind. Cp. note on No. 544.

On finding the same small Sicilian stream called now "Avis now " $\Omega \bar{a}vis$ we are inclined to believe here too in a form $F \bar{a}vis$. In Pindar 'Ol.' v. 26 there is certainly a hiatus before the ω too, and this seems to point to a consonantal initial. There is no objection in the lengthening of the vowel that has arisen from F, which we should have to suppose took place later.

We may finally mention ὅρυζα 'rice.' It is clearly a borrowed word, and, as is recognized by Pott ii¹. 168, and Benfey i. 87 (cp. Hehn³ 438), seems not so much directly to resemble the Skt. vrīhί-s (m.) in sound as to be an attempt at reproducing a related Persian form which has a sibilant instead of h. It is worth noticing all the same as a proof

that the Greeks tried to express a foreign v too by o. Pictet i. 273 gives the Afghan urishi which also has a vowel in the place of v. The Gk. by-form δρινδα comes nearer to the Armen. brinz and the Mod. Pers. biring.

In a few remaining cases it is more difficult to decide whether o has come from the simple consonant F, or from the syllable of. ἀλοάω 'thresh' must be related to ἄλευ-ρο-ν (No. 527), which gives us the stem $fa\lambda \epsilon f$. From this seems to have arisen $Fa\lambda o F - \eta$, then, with lengthening to compensate for the loss of the F, $Fa\lambda\omega-\dot{\eta}$ and $F\dot{a}\lambda\omega-s$ (cp. $\pi\lambda\dot{\omega}\omega$ for $\pi\lambda\sigma F-\omega$), and so too the noun-stem Faλof-ια, whence άλο-ιά-ω (1 568 άλοία) and άλο-ά-ω are derivatives. — The case is the same with γάλω-s, for which under No. 124 we gave gal-vo-s as the primary form. The w seems to point here too to of. whence too γαλό-ως for γαλογ-ο-ς, so that we here regard o as an auxiliary vowel introduced between λ and f. — On the other hand there are no such indications in the triple stem όλοο in όλοόφρων (No. 555), where όλοο-ς corresponds 576 to the Lat. salvu-s, ολοοί-τροχο-ς (No. 527), where it corresponds to the Lat. volv-ere, and ολοό-s 'destructive' from the still obscure rt. $\delta\lambda$ ($\delta\lambda\lambda\nu\mu\iota$), lengthened $\delta\lambda$ - ϵ ($\delta\lambda\epsilon$ - $\theta\rho o$ -s), hence possibly from $*\delta\lambda\epsilon$ -Fo-s. The forms $\sigma \circ \lambda$ F-o, Fo λ -Fo, and όλ-fo are just as possible as σολ-o-fo, foλ-o-fo, and oλ-o-Fo.

3. \(\ilde{\alpha}\) as the representative of \(\mathcal{F}\).

Christ p. 193 ff. assumes that F is vocalized to ι to a large extent. Since ι is near akin to the v which often represents F, this change has at all events some credibility at first sight. But it disappears at once if we consider that F did not pass immediately into \ddot{u} but into u, and this would necessitate the assumption of a threefold change — to u, then to \ddot{u} , then to \dot{i} —if we were to go so far as to assume for F the last metamorphosis. Moreover in most of the cases it is possible to find another explanation of the \dot{i} .

In the first place, as far as the initial ι is concerned, we must at once separate from among the words adduced by Christ the proper names $'l\acute{a}\nu\epsilon\iota\rho\alpha$ and $'l\acute{a}\nu\alpha\sigma\sigma\alpha$, since both admit of explanations from other sources, and since the F

of ἀνήρ (No. 422) has no authority; and again ίξραξ, since βάρβαξ which he compares with it, appears in Hesych. not, as Christ says, as a Lacedaemonian, but as a Libyan word, and accordingly has no weight whatever in any question of Greek etymology. At the same place we read ἰαρείον πρόβατον, βοῦς, Who can doubt (cp. Ahrens 'Dor.' 115) that $i\alpha\rho\epsilon\hat{i}o\nu = i\epsilon\rho\epsilon\hat{i}o\nu$ in the sense of 'hostia' is the right reading? In the case of other words it remains doubtful whether the i is not rather a reduplication (instead of Fi), e.g. in i-ωγ-ή ' protection from the wind' (cp. ἐδ-ωδ-ή, ἰ-ω-ή), which at all events Lobeck is right (Prolegg. 307) in putting under the rt. Far (p. 542). It will hardly be advanced against this that in the only passage in Homer in which the word occurs (ξ 533) there is no trace of an initial F. The same is the case with 1-oulo-s 'sheaf,' which Christ does not mention, by the side of ούλος, whence Demeter got the names '/ουλώ and Ούλώ, clearly from the rt. Fex (No. 527), and with τουλο-ς 'earth-worm,' a word of like origin, which belongs immediately to ὑάλη, εὐλή discussed on p. 564, again with ἰωλκα, αὔλακα (with the by-forms ἄλοξ, ὧλξ, ὅλοξ No. 22), with ἰωρός in which the meaning φύλαξ οίκου connects it at least probably with ovpos (rt. Fop No. 501). There remains then only "laκχos by the side of Βάκχος. But Bergk ('Griech. Literatur' in Ersch u. Gruber's 'Encyklopädie' 1, Section 81 p. 315) regards "I-akxos too as reduplicated, for Fi-Fakxo-s, so too Savelsberg 'De dig.' 24, where attention is called to the Homeric à-viaxou, ă-nxos and other indications of a rt. Fax. Cp. βα-βάκ-τη-ς κραύγασος, δθεν καὶ Βάκχος Hes.

the stem of the present tense. This accounts for καύσω, etc. It is extremely probable that the same is the case with the Epic forms $\theta \epsilon i \epsilon i \nu$, $\pi \lambda \epsilon i \epsilon i \nu$, $\pi \nu \epsilon i \epsilon i \nu$, of which at least the second finds an analogy in a kindred language: ChSL plov-ja. Lith. pláu-ju (No. 369). — In other words too the ι is a part of the stem, e.g. in ol-ωνό-s which we must explain not by of-ωνό-s but by δFi-ωνό-s (No. 596). — In the related ω-i-o-ν it is hard to say whether o or to is the suffix, but the Argive form $\delta\beta\epsilon\rho\nu$, i.e. ώFιο-ν (No. 597), proves that the ι was already in existence before the loss of the digamma. - Schleicher (Hildebrand's 'Jahrb.' i. 407) refers (ειά to the primary form jav-ja, so too Sonne 'Ztschr.' xiii. 430, who on account of the accent of the suffix -ia rightly compares it to that of the collectives, e.g. άνθρακ-ιά (Van. 757). On the supposed forms είως, τείως it is enough to refer to No. 606. The trochaic HEOΣ, TEOΣ Bekker ('Hom. Blätter' i. 227) prefers to write elos, relos because before o and ω ϵ_{ℓ} is the Homeric lengthening of ϵ . But $\hat{\eta}os$, $\tau\hat{\eta}os$, with the long vowel that had existed from the beginning, find support in $\dot{\eta}\dot{\omega}s$. In the adverb as in the noun εως (No. 613) the short vowel is the later. — It is less often that the diphthong of grows out of o. The history of writing does not help us to explain this. But \u03c0vo-i\u03c3 by the side of $\pi\nu\circ\eta$ might be explained by $\pi\nu\circ\mathsf{F}$ - $\iota\eta$. More difficulty attends the unique form ἀγνοιῆσι (ω 218), where the ι seems to have no raison d'être. Perhaps it is the result of a mere poetic license after the pattern of είλατίνη for έλατίνη, είατο for ε-ατο. To the same class belongs especially οί-ετής for δ-Fετής (No. 210) by the side of αὐετής. I do not think we are here dealing with actually living forms any more than in the case of Aristarchus's reading oues by the side of őies (- v v 425), i. e. ôfi-es, for I can see no warrant for assuming a form *oifi-s due to epenthesis. In this, as in other questions, there is no chance of arriving at clear views without taking into consideration the conventional character of the Homeric language, which, after a long life of oral tradition in the schools of the bards, was fixed in a written form by scribes who were perfectly conscious of 578 their task, and not subjected to any scientific criticism till the time of the Alexandrian grammarians. Here if anywhere the need appears of pursuing linguistic and literary studies hand in hand.

Strictly speaking then there is - as Ebel too decides (Fleckeisen's 'Jahrb.' 83 p. 84) - no proof of a phonetic change of F to L. When occurring in the middle of the words adduced - and their number might easily be increased (e.g. by λείουσιν No. 543) — the F can claim no other effect than that of having caused a lengthening of the preceding vowel, after it had fallen out itself. Such words belong accordingly to the same class as ηείδη for ε-Fείδη, βασιλή-os for βασιλέ F-os. treated of by Ebel 'Ztschr.' iv. 171 and Brugman 'Stud.' iv. 130 ff. It is there clearly shown that the length in such cases is variable, the loss of the semi-vowel being compensated by the length now of the preceding, now of the following vowel (βασιλέως, ἐάλων). Cp. Rumpf in Fleckeisen's 'Jahrb.' 1860 p. 682. Also πλώ-ω, χωό-μενος, χώ-ννυ-μι (No. 203), ρώ-ω and the like, by-forms to the rts. πλυ, χυ, ρυ, owe their existence to a similar lengthening, which however is here accompanied by a dulling of the vowel. Perhaps we must assume old forms πλου-ω, χου-ω, ρου-ω in which ου acted as an augmented v instead of the usual ϵv . ω bears the same relation to an ov of this kind that the traditional Doric, and, in the sense of shield, Homeric $\beta \hat{\omega}$ -s bears to βοῦ-ς (Ahrens 'Dor.' 166). We have already (p. 575) assumed the same to be the case with αλω-ς, αλω-ή and γαλως.

b. PREFIXED VOWELS AS WITNESSES TO A DIGAMMA.

In the place of the old labial spirant we often find an ϵ , more seldom an α , now and then the two side by side in the same word in different dialects, e. g. Cretan $\tilde{\alpha}\epsilon\rho\sigma\alpha$, Homeric $\tilde{\epsilon}\epsilon\rho\sigma\eta$ (No. 497), Skt. $varsh\hat{\alpha}$ -s. In order to decide the question, whether such a vowel arises, as was formerly assumed, out of F in the same way as the u and o we have just discussed, or as is now generally recognized to have been the case, was originally prefixed to the F and then kept its place after the F disappeared, in other words, whether the order of the forms was $F\epsilon\rho\sigma\alpha$ $\tilde{\alpha}\epsilon\rho\sigma\alpha$ ($\tilde{\epsilon}\epsilon\rho\sigma\eta$) or $F\epsilon\rho\sigma\alpha$ $\tilde{\alpha}F\epsilon\rho\sigma\alpha$ ($\tilde{\epsilon}F\epsilon\rho\sigma\eta$) $\tilde{\alpha}\epsilon\rho\sigma\alpha$ ($\tilde{\epsilon}\epsilon\rho\sigma\eta$) it will be necessary first of all to make a survey of all existing forms of the kind.

The following are probably the only examples of α as the initial letter of digammatized words:

 \check{a} εθλο-ν (No. 301), as is there shown, from a rt. Fεθ.

579 $\dot{\alpha}\epsilon i\rho\omega$, which, as we showed at No. 504, comes from a rt. Fep.

άέξω by the side of the Skt. vaksh No. 583.

ἄερσα No. 497.

ἀΐτυρο-ν ὕαλος (Hesych.) I connected in the 'Quaestiones etymologicae' p. iv. with the Lat. vitru-m (No. 282), holding it to be the vulgar Graecized form of the Latin word. M. Schmidt 'Ztschr.' ix. 400 calls this comparison in question, explaining the gloss in Hesychius to be a mistake for λ ίγυρον, a rare by-form of λ υγγούριον, λ ιγγούριον 'amber.' But what is there to show that, by the side of the names for a shining mineral body beginning with λ , given by Schmidt, this transformed foreign word might not occur in some dialect or other as a name for glass? Latin words are of common occurrence in Hesychius.

αλοξ (No. 22), the Attic form of the Homeric αδλαξ, ὧλξ, Dor. ὧλαξ, in Hesych. ὅλοξ, without doubt from the rt. Γελκ 'draw,' and hence probably for ἀ-Γλοξ.

 $\dot{\alpha}\nu - \dot{\alpha}\epsilon \delta \nu o - s$ (I 146, 288, N 366), where Bekker now agrees with Benfey in reading $\dot{\alpha}\nu - \dot{\epsilon} F \epsilon \delta - \nu o - s$, and $\dot{\alpha}\nu - \dot{\alpha}\epsilon \lambda \pi \tau o - s$ (Hesiod 'Theog.' 660) we may, with Christ 213, place here, though the α as a representative of the ϵ , which is elsewhere usual in the case of these stems, looks suspicious, moreover we find $\dot{\alpha}\nu \alpha - in$ forms which do not admit of this explanation, e.g. $\dot{\alpha}\nu \dot{\alpha}\pi - \nu \epsilon \nu \sigma \tau o s$ (Hes. 'Theog.' 797). Cp. No. 420 and Gust. Meyer 'Zur Geschichte d. indogerm. Stammbildung' (Leipz. 1875) p. 11.

The far more frequent ϵ is discussed by Lobeck 'El.' i. 55 ff. The words and forms belonging here are the following:

ϵαγμα, interpreted by Zonaras by σύντριμμα, i. e. 'fracture,'
'bruise,' and preserved by Suidas in the form αἴαγμα, along with ϵὐκατϵακτος (Lob. 'El.' i. 59) from the rt. FαΓ 'break'
(p. 542).

 $\tilde{\epsilon}\epsilon\delta\nu\alpha$ or $\tilde{\epsilon}\epsilon\delta\nu\alpha$ constantly in Homer, cp. No. 252, by the side of the less frequent $\tilde{\epsilon}\delta\nu\alpha$.

ἐειδόμενος Pind. 'Nem.' x. 15 and the aor. ἐεισάμενος, ἐεισα-

μένη in Homer from the rt. Fιδ (No. 282). Cp. Bekker 'Hom. Bl.' i. 156.

ἐείκοσι Νο. 16.

čειρόμενος only in the 'Certamen Hom. et Hesiod.' p. 319, 9 (Goettling) in the sense of 'asking.' At No. 493 we saw that ἐρέσθαι 'ask' had no F. Here then the ε must be the result of a mere imitation of older forms that were not understood. Cp. the following page.

έέλδομαι (Ξ 276), ἐέλδεαι (ε 210), ἐέλδεται (Ν 638), ἐελδό- 580 μενος (α 409), ἐελδομέν φ (μ 438), ἐελδομένοισιν (Η 4), ἐέλδωρ (Α 41 etc.). The rt. Γελ-δ is to be regarded as an expansion

of $F \in \lambda = \beta \circ \lambda$ (No. 659).

έέλσαι (Φ 295), inf. aor. to rt. Feλ (No. 660).

έέργει (Β 617, / 404 etc.), έέργουσιν (λ 503), έεργόμενοι (Ν 525) rt. Γεργ (Νο. 142).

έ ϵ ρση by the side of $\check{\alpha}\epsilon$ ρσα just mentioned (No. 497).

έίση (No. 569).

ἐδργη with the by-form εὐέργη, given by Pollux vi. 88 among culinary utensils, and interpreted by τορύνη, i.e. 'ladle, 'stirrer' (tudicula), together with its derivative ἐορ-γῆσαι' τορυνῆσαι (ib.) and ὀργάζειν 'knead,' are placed correctly by Lobeck 'El.' i. 63 with ἐργάζεσθαι, and hence under our rt. Γεργ (No. I41). The by-form εὐέργη belongs to the examples of Γ-νοcalized to v discussed above (p. 566 f.). The same root appears in connexion with quite another meaning in $\pi \alpha v$ -οῦργο-s, where the ov may be explained from $\pi \alpha v$ -εοργο-s, and hence likewise from a form with a prothetic ε, though possibly from $\pi \alpha v$ -οοργο-s for $\pi \alpha v$ -Γοργο-s.

 $\epsilon o \rho \tau \dot{\eta}$ (Herod. $\delta \rho \tau \dot{\eta}$) is shown by the irregular augment of its derivative $\epsilon o \rho \tau \dot{\alpha} \dot{\zeta} \omega$ ($\epsilon \dot{\omega} \rho \tau \alpha \dot{\zeta} o \nu$) to belong here. The connexion with $\epsilon \rho \delta \omega$ however, conjectured by Lobeck 'El.' i. 63, is quite inadmissible, because the δ of $\epsilon \rho \delta \omega$ arose out of γ (No. 141). If it could only be proved that, as Sonne 'Ztschr.' xiii. 442 conjectures, $\epsilon - o \rho \tau \dot{\eta}$ stood for $\epsilon \epsilon \rho \rho \tau \eta$, we should have to take another view of the ϵ . Cp. below p. 587, where, with Fick i³. 771, we shall try to establish for it the rt. $\nu a r$ occurring in the Skt. $\nu r a - t \dot{\alpha} - m$ 'holy work.'

The forms συν-ε-οχμό-ς 'joint' and έ-εχ-μένη συνεχομένη vol. II.

(Hesych.) have been already mentioned under the rt. Fεχ (No. 169).

 $\hat{\alpha}\pi - \epsilon \omega \sigma \tau \delta - \nu \cdot \hat{\alpha}\pi \omega \theta \eta \tau \delta \nu$, as we ought probably to read the interpretation in Hesych. instead of $\hat{\alpha}\pi \delta \theta \eta \tau \sigma \nu$, is a fresh trace of the F in the rt. $\hat{\sigma}\theta$ besides those given at No. 324.

At p. 36 we expressed the belief that Roth was right in regarding the η in $\dot{\eta}$ - $i\theta$ - ϵo -s (rt. vidh) as lengthened from a prothetic ϵ .

Since in post-Homeric times the ε of these words was regarded as a mere pleonasm, it is not surprising that this sound should have been introduced by mistaken imitators of an apparent license, in stems which show not a trace of a F, as especially in ἐέδμεναι (Empedocl.) rt. ἐδ (No. 279), ἐέσχατος explained by Suidas as ὁ ἔσχατος, belonging to ἐξ (No. 583 b), ἐνέεικαν ἤνεγκον, ἐνεείκω ἐνέγκω (Hesych.), 581 mentioned at No. 424. Formations of this kind must be regarded as mistakes of the poets; they were certainly never incorporated into the living language. We expressed a doubt at No. 599 whether the same was the case with ἕεις (Hesiod 'Theog.' 145). The form occurs again in the Anthology, and Herodian περὶ μονήρους λέξεως p. 18 mentions it.

It almost looks as if aberrations of this kind cannot be excluded even from the Homeric poems. The more carefully they are examined in reference to their dialectic peculiarities, the more do they assume an appearance of a vast patchwork - some of the stuff very old, some new 1. I. Bekker says in the 'Hom. Blätter' i. p. 156 note 'although είσατο and ἐείσατο "went" seem also to have the digamma.' The facts are as follows. In είμι, ἰών, ἔπεισι, etc. there is never any but a vowel initial. On the other hand out of the 16 verses in which the middle forms εἴσομαι, εἴσατο occur, 7, either by a hiatus (ἐπιείσομαι Λ 367, Υ 454, ἐπιεισαμένη Φ 424, καταείσατο Λ 358), or by a prefixed ε (άντ' Αἴαντος ἐείσατο Ο 415, τω μέν έεισάσθην Ο 544, cp. x 89) seem to point to a consonantal initial; and to these cases 4 may be added in which the hiatus might after all find an excuse in the bucolic caesura (διαπρό δὲ εἴσατο χαλκός Ε 538, P 518, ω 524, cp. Δ 138). Two passages are neutral, because the verse begins with

¹ Cp. A. Leskien 'Studien' ii. 68.

εἴσομαι, εἴσατο, and only 3 are against the digamma (πάλιν εἴσομαι Ω 462, δεῦρ εἴσεται ο 213, μετεισάμενος N 90). We may add Apollon. Rhod. ii. 372 the perfect form δια-ειμένος (? cp. Buttmann 'Ausf. Gr.' i². 541). Now are we on this account to separate these forms from the others of precisely the same meaning belonging to the rt. i, and connect them, say, with the Skt. rt. $v\bar{v}$ 'go,' 'drive,' a course which is easy to advise, but hard to defend? Or ought we not rather to assume that the bards themselves, having no fixed rule for the use of the F, which was for them already half obsolete, were misled by the false analogy of ἐείσατο ('seemed'), and put in the ε before εἴσατο ('went') as well, where it suited the verse, and allowed the hiatus from the same reason? The latter seems the more probable to me.

We now come to the main question, - how are the vowels α and ϵ in the forms above collected to be regarded? The best explanation the older school of grammarians had to give was that of πλεονασμός or πρόσθεσις (Lob. 'El.' i. 56). In later times Hoffmann has maintained decidedly ('Quaest. Hom.' ii. p. 10) that F was changed into the vowel ϵ . This is much the same as Bopp's view ('Vgl. Gr.' ii². 105): at all events he talks of a melting into ϵ in the middle of the word τεοίο. But the majority of modern grammarians are 582 of the opposite opinion, that α and ϵ are prefixed vowels after which the spirant did not fall out till later, a view held especially by Buttmann 'Lexilogus' i. 145 f., Giese 285, Ahrens 'Dor.' 257, I. Bekker 'Homer. Blätter' i. 133, where comparison is made with 'the e prefixed in Romance languages for the sake of ease of pronunciation (escalier, espada), Savelsberg 11, Pohl 21, Rumpf in his elaborate review of Bekker's Homer in Fleckeisen's 'Jahrb.' 81, p. 680 ff., Schlei her 'Compend.2' 219. Christ adopts a middle course (196), and regards the ϵ as a prefix when it is at the beginning of a word, and as a transformed f when it is in the middle. There would be no great wonder in the change of F into ϵ through the medium of the vowel u perhaps - especially if we imagine the e to be half mute, like that which has arisen in innumerable cases from an old u in OHG. and NHG. But the a could hardly be explained as a metamorphosis of the

u, since it is without doubt farthest removed of all vowels from the region of the lips. Therefore after mature consideration of the question I am now decidedly in favour of the second of the above solutions. The following are the main grounds for my decision. In certain cases we can be quite sure that an α or ϵ was prefixed to the F, because the old digamma still exists after these vowels in the form of v, e.g. in αύληρον and εύληρα (p. 568), in εὐιάδες ἄμπελοι from the rt. fi (cp. p. 564), in αὐλαξ, i. e. ά-Γλακ-ς (p. 579). It is accordingly clearly proved that a prothetic α and ϵ were prefixed to a F as well as to liquids and nasals, as in ἀλείφω No. 340), ἐρυθρός (No. 306), ἐλαχύ-ς (No. 168), ἀμεύω (No. 450). It is probable too that some forms, in which at first sight F seems to have been transposed from the beginning to the middle of the word, are to be explained in the same way. Even Buttmann whose sound keen judgment seldom forsook him in these questions, connects ('Lexil.' i. 146) the Homeric εύκηλο-ς (No. 19) with the likewise Homeric form εκηλο-ς, assuming an intermediate form $\dot{\epsilon}$ - $F\epsilon\kappa$ - $\eta\lambda o$ -s, whence by syncope έξκηλο-s, and, by vocalization of the f, εὔκηλοs. Hugo Weber's objections to this view (Fleckeisen's 'Jahrb.' 1863 p. 608) fail to convince me that it is mistaken. If, as we see, the acute accent fell in έ-εδνα, έερσα, έαγμα on a syllable which arose at a later time under the influence of phonetic tendencies, why could not this happen in the case of έ-Fκηλο-ς? and if an accented vowel can disappear from the end of mapá, κατά, ἀνά, why not from the middle of a word as well? (Cp. 'Stud.' iv. 223 ff.) εύκηλος has moreover been influenced probably by the analogy of $\epsilon \tilde{v}$ (cp. $\epsilon \tilde{v} \alpha \delta \epsilon \nu$). — On the other hand, in the case of the forms Fa and &F (No. 587) there is much to show that both forms existed from a very early period side by side. — On aux we may refer to Nos. 159, 583, 583 on aid by the side of a Fed and vad to No. 298. - In oiparos. which at No. 509 we identified with the Skt. Váruna-s, I cannot regard it as proved that we have a transposition of Fop-avo-s. Windisch regards *var-vanas as the primary form; in that case ούρ-ανό-ς and the Dor. ώρανό-ς would have arisen from δρ-Favo-s (cp. κούρη, κώρα from κόρ Fa).

If then it is an established fact in the first place, that for

certain forms the assumption of a prefixed vowel is a necessity; if, in the second, a vowel of the same character creeps in before other consonants as well, at the beginning of words, under precisely similar conditions; if, thirdly, forms arrived at on the analogy of these furnish us with a simple explanation of the forms which actually occur, we may venture, I think, to regard this explanation as established, and consequently to deny that F was ever actually changed into α or ϵ .

c. F TRANSFORMED TO OTHER CONSONANTS.

1. β.

There can be no doubt that of all the usual marks left in Greek by a vanished F none denoted a sound more nearly approaching to the sound w in English than β . It is true that, when the Greeks began to write in their own character Roman names and words, β was as yet by no means the universal and complete representative of the sound given to it by the modern Greeks, as may be seen from the fact that β always stood for the Latin b, and conversely b for β , while on the other hand β was only partially used — i. e. alternately with ov and o — to denote the Latin v. But β must always have had a sound that was near to the interlabial spirant, and in the course of time became identical with it. Since our grammarians and lexicographers all belong to a time in which the softening had become pretty general, it is often quite impossible to decide whether a β , which they have handed down to us, is merely the written representative of the labial spirant, or whether the actual sound of the spirant has been hardened to that of the kindred explosive. In order to be sure of our footing, we shall always apply ourselves first to such words and forms as we know to have been actually used in old times, and then proceed to those which, given possibly by lexicographers according to their pronunciation, perhaps are witnesses rather to the preservation than the change of the spirant. Words which are decidedly given as Doric or Aeolic we shall omit altogether, since we have nothing essential to add to 584 Ahrens's exhaustive treatment of the subject ('Aeol.' 33 ff.,

'Dor.' 44 ff.: cf. Voretzsch 'De inscr. Cret.' p. 5). It is beyond question that in early Greek β had not the same sound as F, for we are expressly told of a change of F to β before ρ even in Alcaeus and Sappho, in whose texts f was written before vowels. Nor have we any reason to assume that, when the Attic dialect was at its best, the sound of the old F was actually retained intact in that part of Greece, in the form B. On the contrary there is no doubt that in such cases we have to do with a hardening of the F to the explosive, a process which finds countless analogies in the Teutonic languages. For instance in NHG, after l and r an old w becomes b: Schwalbe, Farbe = OHG. swalawâ, farawa (Grimm 'Gr.' i. 525). In Old Irish it is a question whether the b, e.g. in tarb 'taurus' (OGall. tarvos, OCymr. taru later tarw), berbaim 'I boil' (Lat. ferveo), fedb 'widow' (Lat. vidua, Cymr. gweddw), really stands for the medial and not the spirant v which has found unmistakeable expression in the modern forms tarbh, bearbhaim, feadbh. Stokes 'Beitr.' viii. 308 is decidedly of the latter opinion, cp. 'Gramm. Celt.2' p. 54 ('aut servavit aut resumpsit'). From the standpoint of Mod. Irish the spirant would also have to be assumed in the OIr. bar n- 'your' beside far n-, which belongs to the Goth. iz-vara. Only in individual words like the OIr. bran 'raven,' which bears so remarkable resemblance to the ChSl. vranu, where however Cymric also has a b (cp. cic-bran 'corvus carnis' Z². 888), the medial has not yet been called in question. As an instance from the Romance languages we may give the Veronese dobia (=jovia, Ital. Giovedi 'Thursday').

A minute investigation will show that there exist in Greek, at all events within a considerable range, distinct phonetic inducements to this change. It is no mere chance, I believe, that the F has specially often undergone this transformation before or after o or v. o and v are the vowels most nearly related to the F. Just as the Romans showed their dislike to the combinations vu and uv among other ways by changing the spirant into b, e.g. in ferb-ui from the stem ferv and in bub-ile for bov-ile, so the change of foλ (Lat. vol-o) to βολ βούλομαι (No. 659), with which change may be compared that of Fολόεις ('Ολοῦς) to Βολόεις (Βολοέντιοι)

on the Cretan inscription edited by Voretzsch, seems likewise to arise from dissimilation, whence we then at once get an explanation of the relation of $\beta o \lambda$ to $f \epsilon \lambda \delta$, $\epsilon f \epsilon \lambda \delta$. — Of the same kind is θόρυ-βο-ς the connexion of which with θρέομαι, 585 θρόο-ς, θρῦλο-ς is brought out at No. 317. The o originates in the ἀνάπτυξις often before mentioned; the suffix we may conjecture to be -Fo = Lat. vo ($cl\bar{\imath}$ -vu-s, sal-vu-s), which here became -βo. — Lobeck 'El.' i. 72 conjectured that "βυξ, the name of an ὄρνειον κρακτικόν, together with the proper name "Ιβυκος were connected with λύζειν 'scream' (λυγή, lυγμός). The intermediate step would be the stem-form ifuy (otherwise Fick ii3. 204). - κλωβό-ς 'cage,' dim. κλωβίον, is no doubt connected with the st. κλᾱF, i.e. with κλη-ί-s = clāvi-s (No. 59). — κολοβό-s 'mutilated' ' (in use from Xenophon onward) which has also the same meaning as the Homeric κόλο-s and is evidently connected with the Homeric κολού-ω 'mutilate' (No. 114), is without a doubt formed like $\delta\lambda o\delta$ -s (No. 555) = sal-vu-s. In the verb the digamma has become a vowel, in the adjective it has changed to β under the influence of the following o. From the rt. σκολ deduced at No. 114 is formed first κόλο-s, then *κολο-fo-s, and later κολοβό-s, which bears to the shorter form the same relation as the Lat. amb-ig-uu-s does to prod-ig-u-s, and then finally the verb κολού-ω (perhaps for κολο jw, Schleicher 'Comp.2' 779), which is related to the stem of the adjective as $\beta \alpha \sigma i \lambda \epsilon \dot{\nu} - \omega$ is to $\beta \alpha \sigma i \lambda \epsilon v$, $\mu \epsilon \theta \dot{\nu} - \omega$ to $\mu \epsilon \theta v$. — The forms $\mu \delta \lambda v$ βο-s, μόλι-βο-s have been discussed at No. 552, where the words of the same meaning from the related languages with a w are given. To these I add $\mu \circ \lambda \beta i - s = \mu \circ \lambda \upsilon \beta \delta i - s$ from Hesych. On an inscription from Kamiros in Rhodes published by Newton in the 'Transactions of the R. Society

¹ Fick i³. 812 connects κολοβό-s with the Skt. kharbá-s 'mutilated,' 'damaged,' 'crippled' with the by-form kharvá-s, which the 'Pet. Dict.' puts first. It is quite plain that the root of these two words is the same, i.e. that khar corresponds to the assumed σ κολ. But I cannot believe that the vacillation between b and v, so common in Skt. has any historical connexion with the Greek change between F and F, and still less that in Gk. F is to be regarded as a weakening of F. Rather we ought to assume the suffix to have been -va.

of Literature,' vol. xi. (New Series, June 1878) we read at 1. 10 περιβολιβώσαι, i. e. 'make fast with lead.' The β points to a form *βλιβ or *βλυβ (cp. plumb-u-m) with an inserted vowel. — δλ-βο-s was set down at No. 555 as the abstract substantive to δλοό-s = salvu-s, in the sense of salū-s. This is supported by the accent, for $\delta\lambda\beta$ o-s: $\delta\lambda$ o δ -s = θέρμη: θερμή. This etymology, which agrees with the remarks of Lobeck 'Rhem.' 111, seems to deserve precedence over the earlier ones both in respect of sound and meaning. οροβο-s was recognized at No. 494 to be identical with the Lat. ervu-m. The change to the medial has here the analogy of the MHG. erbiz, NHG. Erbse, OHG. araweiz. The deriva-586 tive $\epsilon \rho \epsilon \beta - \iota \nu \theta \sigma$ probably owes its β to the primitive form of the word. — The change of F to β is to be seen particularly plainly in the Corcyraean form oppos ('C. I.' No. 1909) by the side of opFo-s (OPEO≤IAPO≤) on another inscription from the same island discussed by Wachsmuth in the 'Rhein. Museum' xviii. 575 and Bergmann 'Hermes' ii. 139 (Kirchhoff 'Zur Geschichte des Alphabets 3' 93). The Ionic ovpos to which we may now add the Theraic ovpop (Mittheil. des archaeolog. Inst. in Athens' ii. 77), is related to opfor as $\nu \in \hat{\nu}\rho - \nu$ (above p. 568) is to nervu-s. - We may also, with Hugo Weber (Fleckeisen's 'Jahrb.' 1863 p. 608), put with these the not very numerous nouns in -αβο-ς (fem. -αβη). κάρα-βο-ς 'beetle,' κάννα-βο-s 'mould' (from κάνναι 'reed' according to Lobeck 'Proleg.' p. 268), 'Εκά-βη (I. Bekker 'Hom. Bl.' i. 292) very likely were originally of the same formation as aya-vó-s, $\kappa \in \rho \alpha - \delta - s$ (cervu-s), $\kappa \rho \alpha \nu \alpha - \delta - s$, $\tau \alpha \lambda \alpha - \delta - s^{-1}$.

The Lacedaemonian $\omega\beta\acute{a}$, the name of a division of the country, also belongs here. That the β in this word represents an older F is proved by the by-forms $\omega\gamma\acute{\eta}$ $\kappa\acute{\omega}\mu\eta$ (with γ to represent the F), $\check{\omega}as$ $\tau \grave{\alpha}s$ $\kappa\acute{\omega}\mu as$ (cod. $\kappa\acute{\omega}\mu as$), $o\acute{\omega}a\acute{t}$ $\phi\upsilon\lambda a\acute{t}$, ${}^{*}Oa$, ${}^{*}O\eta$, $O\acute{t}\eta$ an Attic deme, $o\acute{t}\eta = \kappa\acute{\omega}\mu\eta$ in Apoll. Rhod. ii. 139 (M. Schmidt 'Ztschr.' ix. 366), $o\acute{t}\eta\tau\acute{\eta}-s$ $\kappa\omega\mu\acute{\eta}\tau\eta s$ Soph. 'Fr.'

¹ For many of these formations Conr. Zacher 'De nominibus Graecis in -αιος,' assumes loss of an ι (p. 13 sqq.). We cannot always arrive at a definite criterion. The suffiix -να, however, both for primary and for secondary adjectives is as clearly established in Skt. as the -uo and -νο in Latin.

130 N. The Homeric ὑπερ-ώϊο-ν may also be naturally connected with these words. Since there is not a trace here of an initial digamma — for the Cretan ὑπερβώϊα given by Pott is the name of a festival (Franz 'Elem. Epigr.' 210), which does not belong here at all — or of a σ in the middle of the word, and since it is uncertain how we ought to regard the β of the Laconian word, the connexion with the Skt. vas mentioned at No. 206 is doubtful. Among the dialectic forms collected by Ahrens we may add to our present list ἀκροβᾶσθαι, δρούβω,
δβεα = <math>ψά, εξωβάδια = ενώτια. In δρούβω the spirant, which we should have expected in the place of β , whether as a matter of mere writing or of pronunciation as well, has developed just as in βούβ-αλο-ς (p. 478) and in the forms given on p. 570. To these we may add the proper name Εὔβανδρος from the inscriptions published by Karapanos ('Dodone et ses ruines:' sixième catégorie No. 3). β is here as in the Cypr. EiFayópas, only a sign for the w-sound naturally developed out of v before a vowel.

In Lesbian Aeolic F before ρ regularly became β (Ahrens 34): βρόδο-ν, βρίζα. The same change occurs at least in 587 some words in ordinary Greek. βρέχω was referred at No. 166 b to a rt. vragh. — βρά-σσω, βρά-ζ-ω 'boil,' 'ferment' with the substantives βράσ-μα, βρασμό-ς, used also for the sea-surf and especially in βραστή-s of earthquakes, forcibly reminds us of the Slavo-Lettic verbs of cooking and boiling: ChSl. vr-ĕ-ti 'fervere,' vrĕnije βράσμα, iz-vir-α-ti βράζειν, varŭ καθμα, var-i-ti πέττειν, Lith. vìr-ti 'cook,' 'boil,' vìr-ti-s 'whirlpool,' 'eddy' (Lex.). From a rt. Fap might come by metathesis βρα, and by expansion by τ βρατ-jw βράσσω, like έρέσσω from ἐρ ἐρετ (No. 492). Cp. Corssen 'Nachtr.' 222. So that probably Bpacibas meant 'Hot-head.' The name of the Cretan hero Bpasila-s would be better explained by the rt. Bpat, corresponding to the Lat. vert 'turn,' and occurring perhaps in βρατ-άνη by the side of ρατ-άνη 'ladle.' In that case the word would mean 'Turner of the people,' Τρόπαιος. With this rt. var 'boil' the OHG. wal-m 'fervor,' wal-î 'tepor' is connected. I do not see how to establish phonetic connexion with βρύ-ειν 'boil' or 'bubble up,' though in meaning it comes as near to our present root as the Carlsbad 'Sprudel'

('bubbling spring') does to Vary the oldest name for Carlsbad. - We may, with some approximation to certainty, place βρέτας here, as I have already done in the note to Overbeck's essay in the 'Transactions of the k. s. Ges. d. Wissensch.' 1864 p. 248. If we take -ras to be the suffix, which bears the same relation to the -τος of κύ-τος, κητος that as (τέρ-as, γέρ-as) does to os (γέν-os, τέλ-os), we are left with Bpe as the root, and it is extremely probable that this is identical with the same var 'guard,' 'watch,' from which at No. 501 we derived on the one side opav. ovpos, and on the other vereri, revereri. We have a decided proof of the early application of the rt. var to the worship of the gods in the Skt. vra-tú-m 'sacred act,' 'vow,' Zd. varena (m.) 'faith,' with which Pictet ii. 692 connects the Slavonic word for 'faith' ChSl. νέτα πίστις, νέτιτι πιστεύειν. Accordingly βρέ-τας might mean 'something worshipped.' a very apt name for this the oldest name for the image of a god. We are tempted to place here also the word ἐορτή (for $\hat{\epsilon}$ -Fop- $\tau \hat{\eta}$) noticed on p. 580. Its proper meaning would then be 'worship.' The by-form $\epsilon \rho \sigma \tau \iota - s$ (prob. for $\epsilon - \epsilon \rho \sigma \tau \iota - s$) discussed by Ahrens 'Aeol.' 158 is not against this 1. -588 νεβρό-ς 'fawn' (Pott ii¹. 235, Benfey ii. 51), ought no more to be separated from νεαρό-s, i. e. νε ε-αρό-s 'young' than the Lat. pullu-s from puer, or juven-ca from juven-i-s.

The influence of the λ is unmistakeable in the stem $\beta\lambda\alpha\sigma\tau$ (p. 549), the relation of which to the Skt. vardh has been clearly explained.

The influence of the preceding σ is perhaps the explanation of the β , not only in $\sigma\beta\dot{\epsilon}-\nu\nu\nu-\mu\iota$ which was above (p. 573)

¹ As far as the meaning goes there is much to recommend Bugge's comparison of $\beta\rho\delta\chi$ -o-s 'noose,' 'cord' with the Lith. $v\dot{e}r\dot{z}$ -ti 'to tie,' $vir\dot{z}ys$ 'cord,' OHG. wurgian (Germ. $w\ddot{u}rgen$) 'strangle,' ON. urga (f.) 'cord' ('Ztschr.' xx. 25). Cp. Fick i³. 774. But in that case we should be obliged, as Bugge himself points out, to separate the Lith. $v\dot{e}r\dot{z}$ -ti from the Gk. * $F\dot{e}\rho\gamma\omega$, $\ddot{e}\rho\gamma\omega$ (No. 142) and several words from other languages there collected. The assumed rt. vragh is nowhere to be clearly seen. There is also nothing to be said against the older conjecture that $\beta\rho\delta\chi$ o-s belongs to laqueus (for *vlaqu-eu-s). On these grounds I leave the question undecided.

connected with ζόασον, but in φλοίσ-βο-s from the st. φλοιδ (No. 412 e), and perhaps in the proper name $\Theta(\sigma-\beta\eta)$ as well, if it really is connected with the rt. $\theta \epsilon s$ (p. 520 note). Otherwise Pott W. i. 999. Still more clear is the relation of άλίσ-βη ἀπάτη (Hesych.) to the st. άλιτ (cp. p. 557) άλιταίνω, $\dot{\alpha}\lambda\epsilon\dot{i}\tau\eta s$: $\dot{\alpha}\lambda\dot{i}\sigma$ - $\beta\eta$ then is probably for $\dot{\alpha}\lambda\iota\tau$ - $\dot{\epsilon}\eta$. — $\dot{\epsilon}\pi\dot{i}\beta\delta\alpha$ 'the day after the festival' and proverbially used for 'the morrow' (τραχείαν έρπόντων πρὸς ἐπίβδαν Pind. 'Pyth.' iv. 140), is conjecturally referred by Pott W. i. 29, who follows in the track of the old explanations (Hesych., Lobeck 'Paralipp.' 221), to *ἐπιβάδα. But neither *ἐπιβάδης nor even έπιβαίνειν is ever to be found in the sense of 'succeeding.' The following day is ή ἐπιοῦσα. Benfey's conjecture (ii. 71), that the word comes from $i\beta\delta\eta$ 'plug,' is not at all a probable one. Hence we get warrant for the conjecture that ἐπί-βδα arose by metathesis from ἐπι-δι Γα, i. e. the same st. δι Γα 'day,' which we arrived at on p. 572 for δοά-ν, corresponding to the Lat. die-s. We met with another trace of this stem at No. 269. Thus ἐπί-βδα would be the next day, just as ἐπίδαιτρον is the after meal, β arising by assimilation from F. The metathesis may be explained by the disinclination of the Greeks and Italians to the combinations δF , $\delta \beta$.

After deducting the words just discussed, in which it appeared that there were phonetic grounds to be found for the hardening of the F, we are left with but few words in which it seems probable that the same change took place. To these belongs ἀμείβω by the side of the Dor. ἀμεύ-ω (No. 450), which, as I conjecture, arose from $d\mu \in F-j\omega$ and perhaps owes its β to the influence of the j. — $\beta i \kappa o$ -s (Eustath.), βικ-ίο-ν' κύαμος corresponds to the Lat. vic-ia (Pott i¹. 120), perhaps also to the synonymous Lith. viki-s, Bohem. vika, vikev, unless these are borrowed from the Germ. Wicke 'vetch,' and consequently indirectly from the Lat. vicia (Hehn3 193, 435). Since the word is expressly declared not to be Attic, and is not quoted from any but late authors, the β here is less surprising. — $\eta \beta \eta$ 'youth,' 'youth's pleasures,' whence ήβά-ω ήβά-σκ-ω, ήβη-τήρ-ιο-ν, έν-ηβητήριο-ν 'place of amusement, $\xi \phi - \eta \beta o$ -s, etc. were connected, first, I think, by Pott i¹. 113, with the Skt. júvan = Lat. juven-i-s (juven-cu-s, juven-ca,

jūn-ix or juven-ix Plaut. 'Mil.' 304 R.), OCymr. ieuanc, 589 OIr. óac 'juvenis,' Goth. jugg-s, Lith. jáuna-s, ChSl. junt 'young.' He explained the n from the Skt. comparative jáv-ijas, superl. jáv-ishtha-s. The Zd. yavan = Skt. júvan also belongs to the latter forms. Benfey ii. 210, Legerlotz 'Ztschr.' vii. 298, Christ 152 follow him in this. must assume a pre-Greek *jāv-ā, or perhaps *jāv-jā. The a belongs to that higher phonetic stage which is called in Skt. Vrddhi, and bears to the a of jáv-ijas the same relation that the η of $\beta \hat{\eta} \sigma \sigma \alpha$, i. e. $\beta \eta \theta - j\alpha$, does to the α of $\beta \alpha \theta \hat{\nu} - s$, or the ω of $\tilde{\omega} \alpha$ 'fleece' to the o of bis = Skt. avi-s. It should be noticed that even the Dorians usually retain the η in this stem ('Ahr.' 151). There was, however, a' Aβaîov in Aegina (Kekule 'Hebe' p. 3). This happens in a few other cases, in which either the stem-syllable itself originally contained a diphthong with ι, as is the case in ήκω rt. iκ (No. 24 c, cp. 'Greek Verb' p. 394), δη-λο-s rt. δι (No. 269), ηρω-s related to the Skt. vīrá-s = Lat. vir. Goth. vaír. Lith. výra-s, or an i appears in the next syllable, as is the case in ήμι-, κρηπί-ς, μῆτι-ς, πηκτί-s, or may be assumed to have existed, as in ήσσων. Cp. Schrader 'Stud.' x. 319. Since then in ἀμείβω we ascribed the hardening of the F into β to the influence of the originally succeeding j, perhaps the simplest solution of the difficulty in the case of $\eta \beta \eta$ is to assume * $j\bar{a}v$ - $j\bar{a}$ to have been the primary form. On the suffix $j\bar{a}$, which is widely spread over all the Indo-Germanic languages, cp. Bopp 'Vgl. Gr.' iii². 336. Sonne 'Ztschr.' x. 176 ventures quite a different etymology of $\eta \beta \eta$, but it can hardly be correct, Fick i³ 492 again another, connecting the word with άβ-ρό-ς. This is inconsistent with the meaning, as is rightly maintained by Bezzenberger 'Beitr.' ii. 190, though he in his turn only substitutes for it the still far bolder assumption that it belongs to the Lith. j e y - t i 'to be able.' — On $\phi \lambda \epsilon \psi$, stem $\phi \lambda \epsilon \beta$ from $\phi \lambda \epsilon F$, cp. p. 302.

In the case of several other stems, for which this transition has been assumed, it must be decidedly rejected, especially in $\beta \acute{a} \acute{\xi} \omega$ 'speak' (fut. $\beta \acute{a} \acute{\xi} \omega$, cp. $\beta \acute{a} \acute{\xi} \iota$ -s), where the rt. $\beta \alpha_{\Gamma}$ can have nothing to do with the Skt. vad, in $\beta a\lambda \beta \acute{\iota}$ -s' threshold,' 'barrier,' 'battlement' which belongs to the rt. $\beta \alpha$ (cp. $\beta \eta$ - $\lambda \acute{o}$ -s

'threshold,' $\beta \alpha \theta \mu i$ -s, etc.) and is as far as can be from the Lat. val-va' folding door,' in βi - α ' force,' the root of which we saw above (No. 639) to be $\beta i = \Gamma i$, in which β therefore is in no case to be traced to the F of Fi-S Lat. vi-S. With the whole of this section cp. Leo Meyer i. 86.

2. μ.

That the labial spirant can change to the labial nasal has been often maintained since Pott i¹. 223. The comparative study of languages has on this point adopted the doctrine of 590 earlier grammarians of a pleonastic μ , reviewed by Lobeck 'El.' i. 114. Bopp 'Vergl. Gr.' i2. 38 mentions this change. According to Benfey i. 89 the change of v to m is 'common and well known,' Legerlotz 'Ztschr.' vii. 135 knows of 'a dozen or so' of words, in which the change takes place; Christ p. 98, 181 ff. gives more than a dozen or so, and Leo Meyer i. 87 about a dozen. Savelsberg 'De dig.' 31 comes very near to my views on the subject. Fick 'Ztschr.' xx. 174 denies this change for ordinary Greek, and Hugo Weber in Fleckeisen's 'Jahrb.' 1863 p. 608 and 'Philol.' xvi. 687 will not allow it at all. On general grounds it is impossible to deny the relationship of the two sounds, though of course it by no means follows from this that they were actually exchanged the one for the other. On looking round for analogies we find, as I am told by my former colleague Dillmann, that in the Semitic languages m passes into v, and the same change may be perceived in the Teutonic languages. It is doubtful whether the South- and Mid-German dialectic mir for wir has changed w to m. Still Schweizer gives a few other instances ('Ztschr.' xii. 309) from German dialects of m = v, e. g. munzig = winzig. Conversely the Czechish river Vltava has become Moldau in German. In the Keltic languages every m between vowels becomes v, or at least gets a pronunciation like that of v (Z^2 . 42, 114). The Lith. $vid\hat{u}$ -s 'the inside,' vid- $\hat{u}i = \mu \epsilon \sigma \sigma \omega$, vidurý-s 'middle' was connected at No. 469 with μέσο-ς, mediu-s, though with a (?) on account of the Slavonic form with m and the fact that it is an isolated representative (cp. Fick xx. 174). Since such relations exist between the sounds v and m there is nothing essentially absurd in the assumption

of a change of the one to the other. Whether or not such a change actually took place will entirely depend on the question whether we can find a list of words containing the two letters, the meaning of which admits of a natural connexion between them.

If we take the Greek words that fall into this category in the order of probability, we shall most naturally begin with $d\mu$ -νό-s. It seems to me very probable that Benfey i. 116 is right in connecting this with $\delta is = \text{Skt. } \Delta vi - s$ (No. 595). It corresponds exactly to the Lith. $\Delta vina-s$ 'wether.' Consequently $\Delta \mu$ -νό-s stands for $\Delta f\iota$ -νο-s (cp. $\Delta \alpha \gamma$ -ι-νό-s, $\pi \alpha \iota \delta$ -νό-s) and means properly $\partial vili-s$, whence the transition is easy to the meaning 'lamb.' The preservation of the α in contradistinction to δi -s finds an analogy in the Lat. $\partial villa$ The fuence of ∂v to ∂v may here be explained to be due to the influence of the following ∂v , and we shall have to assume ∂v as the intermediate stage (cp. ∂v - ∂

We must here place a number of words, in which without doubt an initial \(\mu \) confronts a clearly established initial \(F \), and in which the meaning also presents no obstacle to the connexion of the two forms. ἀλέ-ω 'grind,' along with ἄλευρο-ν 'meal' and the other related words, have been discussed at No. 527, i. e. have been assigned to the rt. Feλ, Fαλ. If then we have good grounds for assuming a form Fάλευρον, we have to choose, in reference to the well authenticated μάλευρον = άλευρον (cp. Stephan. 'Thes.' sub voc., Schmidt ad Hesych. iii. p. 67) between two courses: either with Buttmann 'Lexil.' i. 195 we must derive the rt. άλ, Fαλ from an older μαλ, and consequently identify it with No. 481 Lat. Mux mol-o, Goth. mal-an-against which view it is especially to be urged that it is very unlikely that the F, a sound never a favourite with the Greeks, should have ever taken the place of another, least of all of the very convenient and common μ —or we must here allow of the change of F to μ . For it seems to me hardly possible to

¹ Fröhde's view (Bezzenb. 'Beitr.' i. 327), that av-illa is a diminutive of ag-nu-s I cannot adopt. Just as little can I agree with Fick ii³. 13 that ἀμνό-s and the Lat. agnu-s find a connecting link in *ἀβνο-s. For Labialism only occurs before vowels (cp. above p. 459). To agnu-s however belongs the ChSl. agnīcī.

conceive, in the third place, that different Greek dialects, perhaps, had formed for one and the same idea two words of such peculiar formation, resembling each other in all but the initial, from two utterly unconnected roots. Hugo Weber, who is fond of believing in such marvellous freaks of chance, has only one reasonable objection to urge to my view, i.e. that the F of άλέω άλευρον is not positively established. But does it not constantly happen that we have no doubt of the existence of this sound, though every trace of it has disappeared? μαλλό-s 'tuft of hair,' corresponds exactly to the meaning of the Lat. villu-s and of the unquestionably related vell-us (cp. πηγεσί-μαλλο-s), which latter words were compared at No. 496 with the Gk. οὖλο-s 'curly,' Goth. vulla and Féριο-ν. It follows that μαλλό-s stands probably for Fαλλο-s, though it is true that very discrepant views are held with reference to the word μηλον 'sheep,' which is not far removed from μαλλό-s. Fick 'Ztschr.' xx. 176 connects μαλλό-ς with μαλακό-ς (No. 457) and the Lith. mila-s 'wool-stuff.' Jac. Grimm 'Gesch.' 33 compares the word with the ON. small 'pecus,' smal 'parvus' in the sense of 'small cattle,' in favour of which might be adduced the OIr. mil 'small animal.' Hugo Weber 'Etym. Unters.' 82 with μαλό-ς, μαλλό-ς 'white,' 'shining' (cp. μήλοπα καρπόν η 104), Pott derives it from a rt. ma 592 'resound,' whence too μηκᾶσθαι (W. i. 266). In any case I do not see how to connect μαλλό-s with μῆλο-ν, for the word really means 'tuft,' for all that Hugo Weber says to the contrary, and is so used Aesch. 'Eumen.' 45, and hence the epithet δρακοντό-μαλλοι ('Prom.' 799) applied to the Gorgons and μαλλω-τό-ς χιτών. The use of the word for 'fleece' as a whole is clearly secondary. — $\mu \epsilon \lambda \delta \delta \mu \epsilon \nu \sigma s$ has in Hesych. besides the explanations μέλδων, τήκων, φθίνων, which all come from $\mu \hat{\epsilon} \lambda \delta \epsilon i \nu$ 'melt,' that of $\hat{\epsilon} \pi i \theta \nu \mu \hat{\omega} \nu$ as well; so too $\mu \hat{\epsilon} \lambda \delta \epsilon i$, besides τήκει, έψει, φθίνει, has ἐπιθυμεί. M. Schmidt doubts the correctness of the reading in the latter point. There is no external reason for such a doubt, and hence, though the meagreness of the authority makes us cautious, we venture to compare Γελδ, έελδ (cp. p. 580; cp. ελδομαι έπιθυμω, ελδεται έπιθυμεῖ, ἐέλδεσθαι ἐπιθυμεῖν, etc. Hesych.). Max Müller ii. 331 holds ἔλδ-ο-μαι to be a shortened form of μέλδ-ο-μαι and

derives the latter from the rt. $\mu \in \lambda$ ($\mu \in \lambda \in \iota$). But it is difficult on this view to account for έέλδ-ο-μαι, which points to a F, nor is there any precedent for the loss of an initial μ . — With $\mu o \lambda \pi i s$ the case is precisely the same. Here too Hesychius is our sole authority. As there is no definite reason for doubting him 1, and $\epsilon \lambda \pi i s$ certainly had the F, we put $\mu o \lambda \pi i s$ by its side at No. 333. M. Schmidt, who notices όλπα ή έλπίς. contents himself with saying 'falli videtur G. C.,' and at 'Philol.' xi. 397 throws doubt on ὅλπα as well. But what can we do with such rare forms except assign to them the place which phonetic analogy directs? There is, at any rate, no more rashness in this, than in altering the text by daring conjectures, when there is rarely ground for safe emendation. Of course no one can deny that here, as in a hundred other cases. there may be a copyist's blunder. — We may also record here an example of μ for v in the middle of a word. ἄμφην αὐχήν was formerly only known through Hesych., but had been already connected by Ahr. 'Dor.' 503 with the Aeol. form αὐφήν mentioned at p. 482. M. Schmidt was for emending this too. But meanwhile it has been found in the newly discovered poem of Theorritus v. 28: χρή με μακρον σχόντα τον ἄμφενα ἔλκειν τὸν ζυγόν. The form teaches us much about the Aeolic pronunciation of the diphthong av, which apparently was not very different from av. Here the change is clearly, as in $\dot{\alpha}\mu\nu\delta$ -s and in the MGk. $\dot{\epsilon}\lambda\dot{\alpha}\mu\nu\omega = \dot{\epsilon}\lambda\alpha\dot{\nu}\nu\omega$ (Mullach 'Vulgarspr.' p. 90), the result of assimilation. Still Joh. Schmidt 'Vocal.' i. 182 gives an entirely different explanation of it: he takes άγχήν to be the primary form and compares this with the 593 OHG. ancha 'neck.' If we took $\dot{a}yx$ to be the root, the ϕ of αὐφήν, ἄμφην might be defended by the arguments used on p. 481 f., but the diphthong av could not be accounted for at all.

In the case of a second group of words we must be more chary still. μ i- τ o-s 'thread' is connected by Lobeck 'El.' i. 115 with $i\tau$ ia vimen, the root of which is undoubtedly 1, viere (No. 593), a conjecture, but nothing more. — μ io χ o-s 'sprout,' 'twig,' 'rod,' and δ o χ os (also δ o χ o-s and δ o χ n)' δ μ m ϵ λ ov $\kappa\lambda$ a δ os κ a τ a κ a ρ mos (Athen. xi. p. 495) not used, it seems, till late in the general sense of 'twig.' Several etymologies are possible

¹ [Cp. however J. B. Bury in 'Hermathena' No. xi. p. 269].

for the former word (cp. A. Weber 'Ztschr.' v. 234). It is easy to connect ogyo-s with oco-s, of which it might be the diminutive (for δζ-ισκο-s), but δζο-s is itself of doubtful etymology. For if we refer $\delta(o-s)$ to $\delta \sigma - \delta o - s$ ($\sigma \delta$ being transposed to ζ) we get a form which agrees with the Goth. ast-s, but I cannot see how the δ is to be explained. Fick's conjecture (i³, 504) that the words belong to the Skt. rt. as 'throw,' 'shoot' (cp. a 'shoot') is ingenious but bold. Bezzenberger ('Beitr.' iv. 359) connects of co-s with the Lith. "gis 'growth," 'shoot." - The homonymous μόσχο-ς 'calf' has (Leo Meyer i. 87) been connected with vacca and the Skt. ukshán 'bull,' under the assumption that the Latin word presupposes a form vacsa, the Indian word a form vaksan. But if the 'Pet. Dict.' is right in connecting the latter with the rt. uksh 'besprinkle,' it will suit neither vacca nor μόσχο-ς. It seems better with Fick and others to compare vacca with the Skt. vaca 'woman,' 'cow,' mentioned at No. 19. - μονθυλεύειν and ὀνθυλεύειν 'stuff,' 'adulterate,' are exactly synonymous. Their origin is however obscure, and of the digamma there is not a trace. — It sounds as if μηρύ-ω (μ 170 ίστία μηρύσαντο 'they drew the sails together') was originally identical with έρύω 'draw.' But the comparison becomes extremely doubtful when we find on further investigation that the special meaning of μηρύειν is 'twist,' 'wind' (Theoer. i. 29 κισσὸς μαρύεται περὶ χείλη), that the substantives $\mu \dot{\eta} \rho - \iota \nu \theta o - s$ and $\mu \dot{\epsilon} \rho - \mu \iota (\theta) - s$ 'cord,' 'thread,' cannot possibly be separated from it, and that we find for μήρινθο-s a by-form σμήρινθο-s as well, while έρύω, though it shows traces enough of the F, has neither the meaning 'wind' nor an initial σ, nor the same vowel. - Bugge's remarks ('Ztschr.' xx. 4) on the relation of μορφή to the Vedic várp-as 'image,' which are supported by the 'Pet. Dict.,' are at all events not convincing.

There is more uncertainty still about a third list of words, which for the most part admit with equal probability of en- 594 tirely different etymologies. That e.g., as Christ 182 maintains, μάλα (cf. μαλερό-ς) is identical with the Skt. vara-s 'eximius,' is extremely doubtful. We might with at least equal probability connect it with the Lat. val-ē-re and the Skt. bála-m' strength,' bál-ishtha-s' fortissimus' and the ChSl.

vel-ij, vel-ikŭ 'magnus' (cp. Pott W. i. 561). Since however two distinct conjectures of equal probability are mutually destructive, we are content with regarding the comparative μαλλον, i. e. μαλιον, as the correlative to melius. — μειραξ 'girl, later 'boy' as well, μειράκιον 'boy,' both with diminutive endings, Christ 257 (cp. Lobeck 'El.' i. 114) and Leo Meyer i. 87 connect with the Laconian είρην (st. είρεν), the name at Sparta for youths of twenty and upwards. But the latter word, whose forms are discussed by O. Müller 'Dorians' ii. 296, shows no trace of F. Cp. Joh. Lissner 'Zur Etymologie von eipeves' Programm of Eger 1863. On the other hand, as Delbrück points out to me, we find in Sanskrit márja-s 'man,' 'youth.' marja-ká-s 'mannikin.' The only difference between μεῖραξ (st. $\mu \epsilon \iota \rho \alpha \kappa$ for $\mu \epsilon \rho j - \alpha \kappa$) and $marja - k \acute{a} - s$ is that the former has not a vowel at the end of the stem. - The Zd. maretan 'man' must also belong to it. Whether these words come from the rt. mar 'die' (cp. βροτό-s) must be left an open question. — μία by the side of la might point to Fla, it is true, but we have shown at No. 599 that μία admits also of another explanation. — We recognized oduc (No. 290) as the Gk. form of the Skt. rt. dvish 'hate,' and hence we can admit of no connexion of the latter with μῖσ-os 'hate' and μισέω (Christ 261). The OIr. miscuis 'hate,' miscsech 'exosus,' Z2. 787 and, next to these, the Lat. miser, maes-tu-s, which have retained the m, seem more likely to be connected with the Gk. words. (Cp. Corssen i2. 377.)

We now come to the cases in which the change under discussion has been asserted for the middle of a word, but not proved. — $\tilde{\eta}\mu os$ and $\tau \tilde{\eta}\mu os$ have been compared with the Skt. $j\bar{a}vat$ and $t\bar{a}vat$. I think I have shown in the 'Rhein. Mus.' 1845 p. 249 ff. that a different temporal relation is expressed in the two cases, and that the Gk. words would find their equivalent rather in the ablative form $jasm\bar{a}t$, $tasm\bar{a}t$. Since $j\bar{a}vat$ and $t\bar{a}vat$ have in $\tilde{\eta}os$, $\tau\tilde{\eta}os$ (No. 606) their exact Gk. equivalents both in sound and meaning, the other explanation, which appeals to the chance of the splitting up of a single form both in sound and sense into two distinct developements, loses all probability. — The attempts at explaining the μ in $\tilde{\eta}\mu a\rho$, $\tilde{\eta}\mu\acute{e}\rho a$ to be from F are not at all convincing, for the suffix

-μαρ is quite clear in τέκ-μαρ (No. 235), that of ή-μέρα may be compared with that of "-uepo-s (No. 617). Of the various at- 595 tempts to discover the root of the word the best is that of Ascoli ('Krit. Stud.' 310). He derives the word from the rt. vas(us) 'shine,' 'flash.' The only objection to this is that though the word occurs so often it shows no F in any dialect. It is true that Ascoli's keen eye detects a trace of it in the adverb σήμερον, τήμερον as he explains $l.c. - \pi \iota \mu \epsilon \lambda \eta$ 'fat' belongs no doubt to the rt. πī (No. 363), but it is much more probable that the μ belongs to the derivative element (cp. $\theta \nu - \mu - \epsilon \lambda \eta$), than that it represents F. — It is doubtful whether κάμῖνο-ς 'oven' belongs to the rt. κα (No. 44), since in view of the Skt. άς-man 'stone,' ac-manta-m 'oven,' the word has not unreasonably been connected with the rt. ak (Joh. Schmidt 'Root AK' p. 66); but even supposing the word to be connected with καίω, the change of f to μ would not be established (cp. ὑσμίνη, No. 608). — On λελειχμότες by the side of λιχμάω cp. p. 491.

We are left at last with forms in which the μ cannot be shown with any semblance of probability to have come from F. μασχάλη, which Pott i¹. 223 and others compare with the Lat. axilla, has nothing to do with it. axilla the diminutive of āla (Schwabe 'De deminut.' p.98) belongs to the Gk. ἀκχό-s (No. 4), which had without doubt a vowel initial. — The μ of μελίνη which confronts the Laconian form έλίνη given by Hesych.—if we are to trust the reading at all—is placed beyond a doubt by the synonymous Lat. milium 'millet,' which does not look like a borrowed word. Hehn 3 495 conjectures a connexion with $\mu \in \lambda \iota$. — The assertion, now pretty generally abandoned, that $\mu \in \chi \rho is$ and $\tilde{\alpha} \chi \rho is$ alike both come from Faxpis has not the smallest foundation. $\mu \in \chi \rho is$ seems to be connected with μετά (Pott i². 289). For a conjecture on αχρις see No. 166. — The comparison of μηρό-ς 'thigh' with the synonymous Skt. ūrú-s, maintained by Benfey i. 81, since it would need the assumption of an intermediate form *vāru, will hardly find acceptance. Bezzenberger ('Beitr.' i. 340) now connects unpo-s with the ChSl. mezdra 'membrana' (cp. meso 'flesh,' Goth. mimz) and the Lat. membru-m, in which case μηρό-s would stand for μεμσ-ρο-s. To the same group belongs the Skt. marman 'joint,' 'soft part

of the body.' - Still more futile is the comparison of μύδ-ο-ς 'moisture' with the Lat. vad-u-m 'ford.' On the rt. µud see No. 479. văd-u-m cannot be separated from vād-e-re (p. 473). - μύδ-ρο-s too can be explained by the same rt. μυδ, so that there is no need, as has been conjectured, to go to the rt. svid. - On μίν, which Christ 258 connects with the Skt. sva, preserved in the Gk. f_{ϵ} , $\sigma\phi_{\epsilon}$, we have above 596 (p. 543) passed a different and, I think, more probable judgement. Other conjectures may here be passed over. As it is, we have in this case ventured on a somewhat longer discussion than the plan of this book admits of in general. It seemed important, however, to investigate more minutely the extent of the change and the degree of certainty in single instances. The main result we have thereby arrived at is, that the change of F to μ is probable for only a very few Greek words. It is hardly more common than the interchange of β and μ —e.g. in $\beta \alpha \rho \nu \dot{\alpha} \mu \epsilon \nu \rho \nu = \mu \alpha \rho \nu \dot{\alpha} \mu \epsilon \nu \rho \nu$ (Ross 'Jahn's Jahrb. 69, 545), $\beta \in \lambda \lambda \in \mathcal{V}$ $\mu \in \lambda \lambda \in \mathcal{V}$ (Hesych.), $\beta \nu \mu \eta = \mu \nu \mu \eta$ (No. 482),—which is confined to particular dialects, and is thoroughly discussed by Roscher 'Stud.' iii. 129.

3. y.

The relation of y to F has been already noticed above (p. 442). We meet with an undeniable change of v to g in the Romance languages in the case of initial v: Lat. vastare, Ital. guastar, Fr. gâter, Lat. vulpe-s, Ital. golpe, Lat. vespa, Fr. guepe, and no one doubts that a g here prefixed itself to the v and then afterwards expelled it. Even the Teutonic languages show some instances of this change. The q of the Goth. bag-m-s δένδρον corresponds according to Jac. Grimm to the u of bau-an; according to Pott W. i. 1176 the word comes from the rt. bhu, Gk. ϕv —bag-m-s answering to a possible Gk. ϕv μο-ς in the sense of φῦμα, φυτόν, φύτευμα. Otherwise however Delbrück 'Ztschr. f. d. Philol.' i. 11. Just so the Goth. trigov-s 'true' comes from the root of the verb trau-an, in this case with nasalization as well. Here even Schleicher (Comp. 3 321) admits the origin of g from v. Other Teutonic dialects as well show g proceeding from v, e.g. the Low-Germ. negen (OS. nigen) = Goth. nium, MHG. niwen, Skt. návan (No. 427).

Richert 'Bidrag till läran om de konsonantiska ljudlagarna' (Upsala 1866) p. 377 adduces the Swedish lager = laurus, dialectic Olagus = Olaus. In the modern Persian languages an initial v changes very often to g (Fr. Müller in Kuhn and Schleicher's 'Beiträge' ii. p. 498 f.). On an Armenian g as representative of v cp. Hübschmann 'Ztschr.' xxiii. 16. Examples are: $gail = Skt. \ v'_{r}ka-s' \ wolf'_{r} \ tagr = Skt. \ d\bar{e}var_{r}$ Gk. δαήρ 'brother-in-law,' cp. AS. tâcor (No. 257). In the British languages not only does every initial v become gu, e.g. in $guin = \text{Lat. } vinum, gwr = \text{Lat. } vir (\mathbb{Z}^2, 127), \text{ but also a } v \text{ in }$ the middle of a word, e.g. in petguar 'four,' cp. Ebel 'Ztschr.' xiii. 285. It has been denied, especially by Schleicher ('Comp.' 3 235) and Corssen ('Beitr.' 70, 'Nachtr.' 82, 'Ausspr.' 597 i^2 . 89), that g arises from v in Latin. Five Latin verbs show in the perfect and perf. pass. participle the addition of a guttural to a shorter stem ending in v or u: vīv-o vixi, conīv-e-o co-nixi, flu-o fluxi, stru-o struxi, fru-o-r fruc-tu-s. It seemed most natural to explain this guttural by supposing that before the v,—whether original, as in vīv-o or developed from the u,—a parasitic q introduced itself, and subsequently passed into words and tenses derived from the stem. But at the same time some of these stems show traces of a guttural in other languages besides Latin, e.g. besides frug-e-s, frug-i, fruc-tu-s we get the Goth. brukjan [Germ. brauchen] 'use' (cp. note to No. 158), besides con-flug-e-s, fluxi we get the Gk. οἰνόφλυξ, φλύκταινα (No. 412 d), besides co-nixi we have the Lat. nic-ere 'wink' (Plaut. 'Truc.' ii. 1, 63), all of which can hardly be satisfactorily explained in this way. I therefore admit that the change of v to gv and subsequent g in Latin, which has again found an advocate in Joh. Schmidt 'Voc.' ii. 287, is not established. It is better to regard the guttural in some of these words as belonging to the root, in others, as in flug by the side of flu, strug by the side of stru, as a root-determinative, so that stru-g would bear to stru the same relation as ju-g (p. 62) to ju. In the case of vixi the view that it came from a reduplicated gi-giv, discussed by Corssen i². 389 is possible, although, as Ascoli shows 'Fonol.' 131, there are difficulties to be met here too.

Doubts have been expressed as to the occurrence of this

The numerous glosses of Hesychius, in change in Greek. which an initial y appears in the place of F, have been already explained by some older commentators to be blunders of copyists who wrote I by mistake for F. But Buttmann 'Lexil.' ii. 116 declares himself against this view, aptly referring to the Romance words just mentioned. Giese 'Aeol. D.' 293 recommends a middle course, assuming on the one hand that a phonetic change of F to y actually took place, but admitting on the other that some of the glosses just mentioned were placed under the letter / by mistake. Ahrens again 'Dor.' 52, followed by Christ 183, will only admit the / in the glosses in question as the sign for F, and so reads γάδεσθαι simply as Γάδεσθαι, γέμμα as Γέμμα. At the same passage all the Hesychian glosses with which we are here concerned are adduced. The reasons for and against have been well weighed in different quarters, but there are nevertheless one or two points making for the phonetic change which have been overlooked. The supporters of the view that y means the sound F, rely mainly on the consideration, that otherwise there would be no trace of this important sound to be found in 598 Hesych., and this they cannot believe possible. But I see no weight in this argument at all. The Lexicon follows the alphabet of its time, which had long lost the sign F. The sound of the v was at that late period most naturally represented by β , and we have in fact under β a large number of glosses in which β was in all probability pronounced F, although we often find it impossible to distinguish those in which the real medial β actually arose from F. If then any letter can be regarded as the written representative of F it is not γ, but β. More weight attaches to Ahrens' remark that the words adduced under y belonged in part to such dialects as, like the Lesbian, Boeotian, and Laconian, retain the Funaltered elsewhere, e.g. γέμμα and γημα ιμάτιον, i.e. Γεσ-μα. For glosses of this kind we may regard as very probable the conjecture admitted by Giese too, i.e. that they were taken from older lexicons, which were no strangers to the sign F, and were all placed together by a mistake under I, just as one or two digammated words have been placed under 7, which resembles the digamma in form alone. It is impossible to decide whether the reading γουάναξ, γουελένα, γούρηξις, in the grammarian in Bekker's 'Anecd.' 1168, also proceeds from a simple confusion of F with y. It is certain that we do find y in the place of F even in the middle of words, e.g. in the Pamphylian $N \in \gamma \delta \pi \circ \lambda \iota s = *N \in \delta \pi \circ \lambda \iota s$ (Siegismund 'Stud,' ix. 91) in an inscription, though in the words given by the grammarians there may be nothing but the writing of one letter for another, but here the mistake must be supposed to have been made afresh each time that y was so written. There is no doubt that y stands for F in the middle of the glosses άγατᾶσθαι βλάπτεσθαι, άγάτημαι βέβλαμμαι, as Ahrens p. 55 admits in a measure. The forms belong so clearly to $\alpha \dot{\nu} \dot{\alpha} \tau \alpha = \dot{\alpha} \tau \eta$ in Pindar that there is no reason for the alteration, proposed by M. Schmidt following Lobeck 'El.' i. 162, into ἀτάτημαι. In Aesch. 'Ag.' 730 again Meineke is perhaps right in reading aaraioiv. If e reflect then that, if the sound v occurred in the word explained by the lexicographer, it would be expressed much more simply by β , or, after a vowel, by v, it is far more probable in this case, that there was a phonetic change of F to y. - The tradition also preserved in Hesych. and given in the 'E. M.' 167 on the authority of Herodian, that ἀτρύγετος like ἄτρυτος (cp.

1 Joh. Schmidt 'Voc.' ii. 337 takes ἀ-τρύγ-ε-το-s as 'not to be dried up, connecting τρυγ with τρυγεί (or τρύγει) ξηραίνει, έτρυγεν (Meineke έτρύγη) έξηράνθη, έπὶ λίμνης Hesych. But these glosses furnish but very little proof of a verb *τρύγειν 'dry.' The only passage thought to contain the word, Nicand. 'Ther.' 368 άλλ' ὅταν ὕδωρ σείριος αὐήνησι, τρύγη δ' ένλ πυθμένι λίμνης contains an insufferable tautology if with the older Schneider (Lobeck 'Rhem.' 51) we read τρύγη δ' ένὶ πυθμένι λίμνη, while it gives a good sense if with the scholiast we take τρύγη to be a substantive denoting the 'dry bed' of the lake. The doubtful rt. Truy has now been provided with two cognates outside Greek: Fick i3. 598 connects it with the Lat. tergere, the meaning of which does not at all suit a drying lake, and with the ON. thurk-r 'drought.' Joh. Schmidt refers the γ of $\tau \rho \nu \gamma$ to an older χ (cp. above p. 526) and can so connect the hypothetical rt. TPUX with the AS. dryge, Low Germ. drög. This is, on the face of it, a very complicated assumption. And as to the meaning, while for the sea we can allow the meaning 'not to be dried up,' it can hardly suit the aether, though Joh. Schmidt reminds us of the dew it produces. This interpretation

199 'Ατρυτώνη) meant ἀκαταπόνητος 'not to be rubbed away, 'untireable' (cp. Clemm 'Stud.' viii. 87) gains credit perhaps from the fact that the derivation from τρυγαν 'reap' leaves the e entirely unexplained. We should then have in this word a very old instance of the phonetic change of F to y. If so, the F must have developed itself at a still earlier time from the preceding v, and $\dot{\alpha}$ - $\tau \rho \dot{v}$ - ϵ - τo -s would be a companion to $\dot{\alpha}$ - $\tau \dot{i}$ - ϵ - τo -s: 'not to be rubbed,' i.e. 'worn away' would be undoubtedly a suitable epithet of the sea with its untiring motion (Lobeck 'Prolegg.' 145), as also of the aether, the everlasting, in spite of all its storms (P 425). Perhaps the y owes its survival to the fact that the Rhapsodes early adopted the derivation from τρυγάν. - The s me applies to μώλυγερ τὰ ἄνοζα ξύλα, a gloss whose final ρ shows it to be Laconian. The form is for *μωλυ Fes, identical with the Lat. molles, i. e. molv-es (No. 457). Used metaphorically we find μωλύτερον άμβλύτερον, μώλυ-ς ὁ ἀμαθής, μωλύεται γηράσκει. We have met with similar phonetic developments of F from a preceding v already (p. 586) in ὀρούβω, ἀριστεύΓοντα, etc. (Cp. Savelsberg 'Dig.' 28.) - Baunack's conjecture ('Stud.' x. 60) is at all events an ingenious one—that in Hesychius's gloss aywyis better aywγις] άγωμεν 'Αργείοι there is contained a first pers. dual identical with the Skt. aga-vas. It is possible that the same is the case with the Hesychian gloss ὀφρυγή and ὀφρυγνά, the former of which is explained by χρωμα (perhaps a mistake for όφρύωμα), λόφος, αίμασιά, and the latter by όφρυάζει · όφρύη is a form of actual occurrence, and in the Aeolic poem of Theocr. 30, 7 the reading δι' ὀφρύγων has sufficient MS. authority. — A Latin v is rendered by γ in the glosses γέντερ ἡ κοιλία and

600 σεργοί ἔλαφοι, i. e. cervi. The glosses are important as witnesses to the assibilating pronunciation of the Lat. e, and thereby indirectly to the time at which such glosses were collected. It is certainly possible to conjecture that γ is here only the written, not the phonetic representative of the labial spirant.

brings the dew-producing power of the aether too much into the foreground. — It is enough to condemn Fritz Schöll's interpretation 'born of the darkness' ('Acta soc. phil.' Lips. iv. 325) that the assumption that there is a rt. τρυ 'to be dark' has nothing but the Lat. trux to support it.

4. Further changes.

As a labial the digamma has a certain relationship to ϕ . But it must appear a priori improbable that the aspirate, which consists of an explosive with a breathing following it, should without any external inducement develope itself from the far weaker labial spirant. The only instances of this change, that can be pointed out, are to be found in two classes of words; first, in certain words in out-of-the-way dialects, in which the lack of a customary sign for the actually existing sound v led to the adoption of the ϕ which in its later pronunciation as a spirant was somewhat similar; and next after a preceding o, which, as a hard sibilant, assimilated the spirant to itself, that is, hardened it into the aspirate. On an inscription from Aspendos we read άγύρυ μνᾶς φίκατι for Γίκατι (Gust. Hirschfeld 'Berl. Monatsb.' 1875 p. 123). Fέσπερε, πάντα φέρεις is now rightly read in Sappho 95 (Bergk³), since only 'Et. Gud.' gives φέσπερε, the other sources ἔσπερε. — λαίφα ἀσπίς (Hesych.) is proved, as Ahrens 'Dor.' 49 shows, by the glosses λαίβα πέλτη, λαῖτα (with a copyist's error of T for F) πέλτη, λαίας ἀσπίδας Κρητες, to be identical with λαι Fa (No. 533). λαφός ὁ ἀριστερᾶ γειρὶ χρώμενος is however probably nothing but the Latin laevus. - Savelsberg 'Ztschr.' viii. 407 conjectures that συφεό-ς (κ 389 συφειοῦ) 'pig-sty' was developed from συ-F-εό-ς. Fick i³. 699 takes the word as 'pigs' building,' identifying $-\phi\epsilon_0$ -s with the Lat. favu-s. — It is a mistake to take $\phi\epsilon_{\nu\nu}$ os φόνος, ένιαυτός, which has been compared in the latter meaning with yévvos ápxaîos, as an instance of $\phi = F$. genuineness of both words is rendered doubtful by their position, and the latter in particular is among surroundings that thoroughly justify M. Schmidt's asterisk. As we have shown at No. 428 that in evo-s 'old' the original initial was the sibilant, there is no establishing the digamma at all. -We must reject the comparison, first attempted by Savelsberg viii. 407, of $\phi_{\iota\epsilon\rho\delta\varsigma} = \phi_{\iota\alpha\rho\delta\varsigma}$ 'bright,' 'shining,' with $\iota\epsilon\rho\delta\varsigma$, as the latter had originally a vowel initial (No. 614). - There are however three clear instances in which the F hardened itself unmistakably under the influence of σ ; first the pro601 noun-stem ope, the by-form of F_{ϵ} , $\dot{\epsilon} = Skt.$ sva (No. 601), on which it is enough to refer to p. 443. That, as Ebel 'Ztschr.' xiii. 286 assumes, the phonetic process consisted in the first place in the introduction of a π before the F, and that the latter fell out in time, I think has not been made out. - We assumed the occurrence of the same change at No. 575 for σφόγγο-ς. — The stem of the personal pronoun of the second person in the dual $\sigma\phi\omega$ is developed in a similar way from the singular tva (1 s. Skt. tva-m). Here the first step was the changing of the t to σ under the influence of the v (cp. $\tau \epsilon$ - $\sigma\sigma\alpha\rho = \text{Skt. } ka\text{-tvar}$), the next the change of v to ϕ under the influence of the σ. The Graeco-Italic o (σφο and vō-s, vō-bi-s) is remarkable, as it also establishes the agreement with the Skt. va-s, etc. (Bopp 'Vgl. Gr.' ii2. 127). — In Irish an original initial v is regularly represented by f, e.g. in fer 'man,' Lat. vir, fiche 'twenty,' Lat. viginti. The pronoun-stem sva seems to be present in the OIr. feib 'as,' probably a reduplicated formation like the Goth. svasve, and further in the remarkable for forms 'self' fesin, féin, fadesin Z2. 366.

Of the change, still more improbable in itself, of F to π probably the only instances of any validity are σπόγγο-ς (No. 575), in which π varies with ϕ , and $\lambda i \sigma - \pi o - s$ for $\lambda i \tau - fo - s$ (No. 544), where it is explained to be due to the influence of the sibilant. The Doric form Mágos, as the MSS. in Skylax p. 19 have it (Voss and others 'Oαξός) by the side of "Oαξος, Fágos, is very problematical, inasmuch as the reading is by no means certain. — Even if the Cretan ΠΟΛΧΟΣ really meant 'people' as was assumed, it would not be identical with ox los or volgus. But Roscher shows at 'Studien' ii. 1, 154, that there is not the smallest warrant for the assumed meaning, and that it is more likely that the word, which is found on a few coins from Cnossus, is a proper name—probably nothing but the syncopated by-form of Πόλιχος. — άμπέσαι Lacon. = άμφιέσαι, which Ahr. 'Dor.' 357 explains to be άμ-Γέσαι, clearly owes its π to the operation of the ϕ in $\dot{\alpha}\mu\phi\dot{i}$, although it is not easy to see how the following F could arrest the process of aspiration. The case of $\dot{\alpha}\mu\pi$ - $\dot{\epsilon}\chi$ - ω is not analogous.

The assertion that F can become κ or χ is made good neither by Christ (184) nor by Savelsberg (35). ἐδήδο-κα

formed on the analogy of $\epsilon \mu \eta \mu \epsilon - \kappa \alpha$ with the perfect termination $-\kappa \alpha$ is no proof at all of it. On the entirely isolated $\epsilon \delta \eta - \delta o \epsilon \alpha$ see above p. 505.

The change of F to ρ after a consonant; of which there is little evidence, has been treated of at p. 455.

Savelsberg, it is true, is for assuming the change of F to the dental σ , a sound as foreign to it as possible, but it is hardly likely that he will find any one to agree with him.

2. Transformations of the J.

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I. TRACES OF THE EXISTENCE OF THE j IN GREEK.

'The palatal spirant j is to be found in its proper form in no Greek dialect, for the simple reason that the Greek alphabet never had a special sign for it. The loss of this consonant is one of the chief peculiarities of the Greek language, shared by all its dialects, as far as any written records that we have can tell us.' Hitherto we have been driven to the conclusion above given. The welcome addition which our knowledge of Greek has received by the discovery of the Cyprian syllabary revealed, among other things, characters which have been interpreted with probability as ja, je (Deecke-Siegismund 'Stud.' vii. 222 ff., Hartel 'Homer. Stud.' iii. 39, Joh. Voigt 'De titulis Cypriis,' 'Leipziger Studien' i. 253 ff.), e. g. in the words ijaσ- $\theta \alpha i$, $\dot{\alpha} \delta \rho i \dot{\beta} \dot{\alpha} \tau \alpha \nu (= \dot{\alpha} \nu \delta \rho i \dot{\alpha} \nu \tau \alpha)$, $\dot{i} \dot{\beta} \epsilon \rho \dot{\epsilon} o s$. It is remarkable that these sound-groups never began a word, and occur in the middle only of words in which a j has been developed on Greek soil from a preceding t, just in the same way as in the Cyprian dialect, a v often produces the corresponding v (κατεσκεύξασε). In its disinclination to the palatal spirant Greek resembles Old-Irish, which suffered the same loss, and the Norse languages, in which an initial j is very generally dropped (Grimm 'Gr.' i. 322), e.g. OIr. 6ac (OCymr. ieuanc), ON. ung-r = Lat. juvencu-s, Germ. jung. But the surviving effects of this letter in Greek may be traced to an almost greater extent than those of the digamma. They are more various, though they are in part more difficult to explain.

There is a mass of evidence in the Homeric poems of

the survival of an initial F. The question is, do these oldest of Greek monuments furnish any similar metrical indications of the j? In the 'Philologus' iii. 6 ff. I have discussed this question with reference to two words of frequent occurrence. The facts of the case no one doubts. The case is the simplest with the &s which follows its word, and for it I may refer to I. Bekker 'Homer, Bl.' i. 204 and to Knös 'De digammo' 166. According to the reckoning made by the latter, fortyfour Homeric verses (after deducting twenty-three repetitions) point to a consonantal initial (κακὸς τς Z 443, κύνες τς, θεὸν τς — μελίη ως, λύκοι ως Δ 471), twenty-three are against it (after deducting seventeen repetitions, e. g. θεὸς δ' ως τίετο δήμω E 78), the rest give no indication either way (e.g. κύων ως O 579). This state of the case led I. Bekker to assume that 603 ws was related to the pronoun of the third person, and a further result of his conclusions was the writing Fús where the verse allowed it. But there are special difficulties in this course. In no other position does as show the faintest trace of a consonantal initial - e.g. not in σαώτερος ώς κε νέηαι Α 32, Θέτις δ' ώς ήψατο γούνων Α 512, άλλ' άγεθ' ώς αν έγων $\epsilon i \pi \omega B$ 139. There remain therefore but two courses open to us. Either we must hold that this distinction in the case of the postposed of is one of the many accidents which must be admitted to have happened in the preservation of the F in Homer, or else we must show special grounds for it. The number of instances is such as quite to preclude the supposition of chance. Besides og 'as' is unmistakably the adverb, i. e. it is originally the ablative of the rel. pronoun \ddot{o} -s = Skt. ja-s (No. 606) and so far corresponds to the Vedic particle jat. The use of this somewhat rarely occurring particle agrees in some points exactly with the customary uses of ws, e.g. jak-Khrēshthá, i. e. jāt-crēshtha 'as well as possible' ως βέλτιστα ('Pet. Dict.'). Consequently there is nothing to establish the F for &s. Notwithstanding Leo Meyer has recently ('Ztschr.' xxi. 351 ff.) vigorously attacked my assumption that we here have to do with an effect of the j. His own view is that 'the postposed ws does not belong to the relative pronoun at all, but to the stem of the reflexive pronoun $\sigma F \epsilon$, $F \epsilon$. In that case we should have to assume that there were two

different ώς - that in phrases like τῶν πάντων οὐ τόσσον οδύρομαι ώς ένδς Χ 425, μαίνετο δ' ώς ὅτ' Αρης Ο 605 the comparative ώs was of relative origin, but not in ὅρνιθες ώς, φυτὸν ως; that the former came from jāt, the latter from svāt, and that it was a simple chance that ω_s τ_{ϵ} in its comparative use, e.g. in ωστ' άμητηρες Λ 67, ωστε κρήνη μελάνυδρος Π 3 had exactly the same force as the postposed os. It will be admitted that this makes great demands on our faith. On the other hand I see nothing prodigious in the assumption that in certain formal phrases in which the ws was, contrary to its later use, put after its word, the power of the initial of ws to remove a hiatus and make 'position' survived, owing to the unbroken tradition of the Homeric poets, from the time when a fully sounded j still existed at the beginning of the word. We have seen at p. 562 similar instances of the surviving effects of lost sounds in the Romance languages. Indeed this assumption seems to me to supply a sufficient explanation of the two-fold treatment of the initial of this word in Homer. But it is no use expostulating further with anyone who can believe that there were two distinct words os meaning 'as,' and that it happened that the one supposed to have had an initial F has only survived as a postposed particle. Did anything ever so happen elsewhere?

The case of $le\sigma\theta\alpha l$ is harder to settle. In two points there 604 is a remarkable phonetic distinction in Homer between the active iévas and the middle "εσθαι. The s in the active is almost always short, very rarely long (πρόσθεν ίεν Μ 33 ώς φάσαν leiσαι όπα μ 192), on the other hand in the middle it is long fifty-nine times and hardly ever short. Before the active forms there is, with the exception of hke (e.g. dotepa ήκε Δ 75) in a few verses, no clear trace of a striking hiatus. It is only from ἔηκε είσαν ('Greek Verb' pp. 80 and 85) that we can deduce the existence of the consonantal initial for an earlier period. The middle however shows a hiatus in twenty-nine cases before the forms beginning with ι (δ δὲ ἴετο Λ 537, οἴκαδε ἰεμένων Β 150), and only four passages do not admit of a consonantal initial (ἄμφω δ' ἰέσθην Σ 501). Moreover in the active the physical meaning 'send,' 'throw' is the prevailing one, in the middle the metaphysical meaning

'strive,' 'desire.' In spite of these differences it is only recently that any doubt has been expressed as to the connexion of the active and the middle. That they were the same verb is made probable in the first place by the complete similarity of their inflexion, and this argument is made still stronger by the comparatively small number of the verbs in µ. Moreover even in Attic Greek the quantity of the i is variable. the vowel is long as a rule in the active as well and a i is an exception (Nauck 'Philol,' xi. 464, Veitch 'Greek Verbs' p. 293). Finally the Homeric meaning 'desire' for ίεσθαι is very common in the Attic poets (Ellendt 'Lex. Soph.' s. v.) and ἐφίεσθαι which is common in Attic prose and poetry has exactly the same meanings as the simple verb. Are we to suppose that ἐφίεσθαι, e.g. in phrases like ἀλόγου (Eur. 'Hel.' 1183), ἀρχης (Thuc. i. 128), τυχεῖν (Soph. 'Phil.' 1315) ἐφίεσθαι, has nothing at all to do with that poetical ίεσθαι and was developed, in exactly the same meaning, by a pure chance, from Inu! This is what Leo Meyer is driven to assume, for he repeatedly (last in Bezzenb. 'Beitr.' i. 301) and emphatically maintains that the active and the middle come from different roots. The Attic ἐφίεσθαι 'desire' shows by its related noun-forms έφεσις, έφετικός (ρήματα έφετικά 'verba desiderativa') that it can belong to no other root than \(\epsilon\). It will be seen from all this that it is worth while to attempt to explain the discrepancies between the active and the middle without severing the connexion between them. This attempt I made at 'Philol.' iii. 5 ff. Without being prepared to make good every particular assertion in a paper written thirty-three years ago, I still think that in its main idea it was right. To begin with the meaning: there is no lack of instances of the passing into each other of the meanings 605 'send' and 'strive.' Passing by phrases like our 'to throw oneself into a thing' we find even in the active e.g. of ¿φιέναι in Homer many instances of the meaning 'to urge on' ($\delta \tau \epsilon$ μ' έχθοδοπησαι έφήσεις Α 518, οίνος δστ' έφέηκε πολύφρονά περ μάλ' ἀεῖσαι ξ 464). It is not a long step from this use of the active to ἴεσθαι, ἐφίεσθαι 'to have oneself driven,' 'strive.' Even the simple léval shows traces of an intransitive use, e.g. "not 'flows' n 130, \(\lambda\) 239 and in the sense of 'dashes,'

fertur' Aesch. 'Pers.' 470 ἵησ' ἀκόσμω ξὺν φυγή. I believe that inul is a reduplicated present of the rt. \(\epsilon = \text{Skt. } j\vec{a} \) 'go,' 'draw,' and that consequently its original form was *ji-jη-μι. That, as Leo Meyer puts it, this present is 'all in the air' is true to this extent that there is no Indian *ji-ja-mi, but Leo Meyer's *si-sā-mi has no support in Sanskrit either, and only a very doubtful one in the Lat. se-ro for se-so. At all events vija (from the stem vi 'desire') assumed to account for Leo Meyer's *Fιεμαι is a pure invention. It is well known that different languages use different methods of present formation for the same root. Are we to suppose that τύπτω has nothing to do with the Skt. tupā-mi (No. 249)? Another objection made to my view is that it does not admit of any explanation of the length of the i. In 'Ztschr.' xxi. 353 the Dorpat Professor asks 'where are we to find another i in a reduplication lengthened?' The answer is, 'to begin with, often in the active "nul, which Leo Meyer himself holds to be reduplicated, not only by wicked Attic writers to whom this Homerist is reluctant to go, but also, as we have seen, here and there in Homer, and next in πιφαύσκων (δήμω πιφαύσκων Σ 500, by the side of ή τι Μυρμιδόνεσσι πιφαύσκεαι Π 12), in Σίσυφος (Ζ 154), Τιτάν, Τίτυρος, and also in Indian agrists like a-pī-pata-t, a-ģī-gar (Delbrück, 'Verb.' 109 f.).' The frequent occurrence of hiatus before ίέμενος etc. I explain to be surviving effects of the departed j, as in the case of the postposed ώς. It is not surprising that this old fashion should have survived only in the middle forms meaning 'desire' which had most nearly become a special phrase and were confined to poetry, while in the case of the active forms, which occurred commonly in all periods, it gave way, even in Homer, before the ordinary pronunciation. In the active there established itself - though, as we saw, by no means universally - the causative meaning (Skt. jā-pá-jā-mi) 'send,' 'drive,' in the middle however the metaphysical one of 'desire.' In Sanskrit the latter appears in jat, which exactly means 'strive,' and is as undoubtedly an expansion of $j\bar{a}$, as ish 'wish' is of i 'go.' The varying intransitive, transitive and causative uses which in verbs like ιστημι, βαίνω, φαίνω and others distinguish the

different tenses are not restricted within the same limits in 606 the case of other verbs, such as ἄγειν, ἐλαύνειν, βάλλειν and the Lat. volvere. The rt. pat 'fly' (No. 214), though showing even in Latin (e.g. impetus) decided traces of an intransitive use, has here fixed itself as specially transitive. It would be well worth while to trace more minutely such processes in the history of the meanings of words. After all I believe that my view of ἵημι, though not 'proved'—how much there is in the realm of our study which does not admit of proof!—may yet be reckoned probable,—more probable than any which has sought to replace it. For the attempt, made by Fick i³. 789, to connect the whole verb with a supposed rt. sa leaves the Homeric phenomena from which we started altogether unexplained.

The traces of a semi-vowel j, which under the influence of a following vowel has introduced itself sporadically in the place of an ι , have been very carefully collected by Hartel 'Homer. Stud.' iii. 15 ff. Where diphthongs are made short before vowels ($\tilde{\epsilon}\mu\pi\alpha\iota\sigma$ s, $o\tilde{\iota}\sigma$ s, $\tilde{\iota}\pi\pi\epsilon\iota\sigma\nu$) the question how long the ι survived as a semi-vowel is not always easy to answer, and here I cannot always think Hartel right (as indeed he himself admits at p. 19) in holding that often only a 'quite slight vibration' survived of the semi-vowel. Certainly we must assume more than this in the disyllabic $\tilde{\alpha}\rho\gamma(\alpha s)$ Aesch. 'Ag.' 112, in $\lambda\delta\gamma\iota\sigma\iota$ with the first syllable short in Pindar 'Nem.' 6, 30 and in similar cases.

The transformations of the j are very similar to those of the digamma. Much matter that comes under this head has been discussed by Grassmann in his important essay 'On the connexion of the consonants with a following j, and the phenomena which arise therefrom' ('Ztschr.' xi.). Here, as before, we start with the vowels.

II. INTERCHANGE BETWEEN J AND VOWELS.

1. Interchange between j and i.

The vowel ι comes a step nearer still to the consonant j than v does to F, inasmuch as not \ddot{u} but u was the vowel with which F changed places. Hence the remarks made

before about the relation of the semi-vowel and the corresponding vowel apply here more aptly still. In many cases it is impossible to decide which is the older of the two sounds. There are probably only two instances in which an initial i corresponds to a j in related languages, i.e. the proper name 'laoves by the side of the Skt. Javaná-s 'Greeks,' OPers. Yauna, in which case the Greek vowel naturally has 607 priority over the oriental semi-vowel, and the verb iévai = Skt. jā 'go,' for separating which Brugman 'Morphol. Forsch.' i. 5 does not seem to me to have shown any good grounds. In the middle of a word however the correspondence of the one to the other is very frequent. The instances of this in the structure of the verb have been collected, together with the analogous cases in other departments, in my 'Greek Verb,' e.g. (p. 208) $i\delta$ - $i\omega$ = Skt. svid- $j\bar{a}$ -mi (No. 283), Dor. fut. πραξί-ω, βοαθησίω (p. 468), ε-ίη-ν for έσ-ιη-ν = Skt. (a)s-jā-m, Lat. (e)s-ie-m (p. 329). In the declension of nouns we meet with this phenomenon in the gen. sing. of the o-declension: ο-ιο = Skt. a-sja (Bopp 'Vgl. Gr.' i², 384); numerous suffixes used in the formation of words show it, as does the comparative suffix -10v, Lat. -ior = Skt. ijan-s for jans or ians, e.g. $\dot{\eta}\delta$ - $i\omega\nu = \text{Skt. } sv\dot{a}d$ - $ij\bar{a}n$, Lat. $su\bar{a}(d)v$ -ior, and the common suffixes -10-5, -1a, -10-v, on the relation of which to the Skt. ja-s, jā, ja-m the reader is referred to Bopp's 'Vgl. Gr.' iii². 333 ff. It should be noticed that in almost every case the Latin vowel agrees with the Greek, more especially in the formation of substantives and adjectives, for which the suffixes $\iota o - s = iu - s$, $\iota \alpha = ia$, $\iota o - \nu = iu - m$ are employed in a remarkably similar manner by the two languages, while the Teutonic and Slavonic languages constantly resemble the Sanskrit in choosing the consonant j. We may conjecture from this that the vowel was of great antiquity. Benfey has likewise decided for the priority of the vowel for ia and elsewhere in his dissertation 'Ist in der indogerm. Grundsprache ein nominales Suffix ia oder statt dessen ya anzusetzen?' (Gött. 1871), and Havet ('Mém.' ii. 177) agrees with him most decidedly. We have already had occasion (p. 562 f.) to speak of the survival of the i in the dialect of the Vedas where a i is found later. The course of language was certainly in this

ful. - For a further set of forms there are to be found elsewhere dialectic by-forms, which clearly point to j, so in particular with Bopéns which at 15, Y 195 makes a spondee, and had consequently an e pronounced like a consonant and of the nature of a j, which was able to make the o long by position. The form Βορρά-s in which the accent is irregular arose by assimilation, like the Aeol. $\phi\theta\epsilon\rho\rho\omega$ from $\phi\theta\epsilon\rho$ -j ω . A conjecture on its origin has been given at No. 504. There is however this difference between these two cases, that the j of $\phi\theta\epsilon\rho\rho\omega$ is original while in the conjectural $B\rho\rho\sigma$ it arose on Greek soil from ϵ . For Zacher 'De nom. in alos' p. 127 is no doubt right in explaining Boρέā-s to be from *Boρεσ-α-s (Fóρos ' mountain') and Βόρε-ιο-s from Βορεσ-ιο-s. — The case is the same with στερεό-s for which the Attics preferred the form στερρό-s, i.e. στερ-jo-s, while the fem. στείρα (No. 222) has transposed the ι to the stem-syllable (cp. $\phi\theta\epsilon\ell\rho\omega$), and with κεν-εό-s by the side of the Aeol. κέννο-s and the Epic κεινό-s, which was later shortened into $\kappa \epsilon \nu \delta$ -s and is exactly parallel to the Aeol. στέννο-ς. Epic στεινό-ς, Attic στενό-ς, while it should be compared with the Skt. cūn-já-s (No. 49) as well. On the Thessalian inscription edited by Heuzey ('Annuaire de l'Association pour l'encouragement des études Grecques' Paris 1869), l. 3 we read $\pi \alpha \tau \rho o \nu \epsilon \alpha \nu = \pi \alpha \tau \rho \omega t \alpha \nu$. The Chian inscription in Cauer's 'Delectus' No. 133 has the forms oikéas and oikías side by side. As Old Attic we find Avoéas by the side of Avoías ('C. I. A.' i. 468).

In other cases it is more probable that the ε is a shortening of the diphthong ει. Among these comes δωρεά with the Hesychian by-form δωριά. This word δωρεά may undoubtedly be placed, if only in virtue of its accent, among the collectives in -jά, treated by Bopp 'Vergl. Gr.' iii². 339, e.g. Skt. gav-jά 'a herd of cows,' cp. ἀνθρακ-ιά, μυρμηκ-ιά, νεοττ-ιά. Accordingly 610 δωρ-εά properly means 'a number of gifts,' and the original form was δωρε-ιά in which the ε is of the same kind as that of ἵππε-ιο-\$, ταύρε-ιο-\$. This form was first pointed out by Hugo Weber ('Ztschr. f. Gymnasialwesen' 1863 p. 123) in an inscription. Since then so many instances of δωρειά have been discovered that doubt is now felt on the other hand, as to whether δωρεά is good Attic. Cp. A. Schaefer 'Rhein.

Mus.' xxiii. 422, where a remark of Bücheler's is quoted to the effect that in the tragedians the metre never requires the shorter form. Cp. Zacher 'Nomina in alog' p. 52. To the same class of words belongs γεν-εά, the original meaning of which we must take to be 'generation,' i.e. the sum of people of the same age. Since these collectives presuppose an already existing noun-stem from which they are derived, we must refer γεν-εά to *γενεσ-ja, which first no doubt became *γενεια, then $\gamma \in \nu \in \alpha$, as $\tau \in \lambda \in \sigma$ -jo-s became $\tau \in \lambda \in \nu$ and $\tau \in \lambda \in \nu$, and as the verbs in -εω came from -εj-ω (Hom. νεικείω). Here accordingly ϵ is etymologically not a representative of the j but of a combination of sounds containing a j or i. The same is true of the adjectives of material in -eo-s, Epic -e10-s Dor. -10-s, Skt. ēja-s¹. The names of trees too ending in -εα (κρανέα, συκέα) with by-forms in -ια, e.g. κράνεια, treated of by Ahrens 'Dor.' 121 and Lobeck 'El.' i. 251, seem to me most naturally classed with the adjectives in $-\epsilon_0$ -s, so that here the tree is named from its fruit, the fig-tree being called 'the figgy (tree).' The vacillation between $\epsilon \iota$ and ϵ lasted in many words to the latest period of Attic and even longer. Demosthenes' ἐπηρεά-($\epsilon i \nu$ by the side of $\epsilon \pi \eta \rho \epsilon i \alpha$ is a striking instance of it. — The most thorough substitution of ϵ for $\epsilon \iota$ is to be seen in the particle ἐάν, which even in Homer was contracted to ήν, while later αν, αν was formed from the uncontracted ἐάν. The Epirot inscriptions of Karapanos now show us εἰάν (Vème Série No. 18), but no one will take that for the primary form. Here as often in Epirot $\epsilon \iota$ and ϵ are interchanged ($\check{\epsilon}\mu\epsilon\iota\nu$, $\Delta\iota$ 0πέθης).

In the forms just discussed we had the guidance of Greek dialects, but there are others of which the explanation must be sought in the related languages alone. Among these is $\dot{\epsilon}\tau\epsilon\dot{o}$ -s compared at No. 208 with the Skt. $satj\dot{a}$ -s. The derived $\dot{\epsilon}\tau\dot{a}\dot{\xi}\epsilon\iota\nu$ preserves the shorter stem $\dot{\epsilon}\tau o$, which is parallel to $\kappa\epsilon\nu o$ and $\sigma\tau\epsilon\nu o$. The unstable nature of this ϵ is clearly to be seen in the Homeric $\phi\rho\dot{\epsilon}\nu\alpha s$ $\dot{\eta}\lambda\dot{\epsilon}$ (O 128) by the side of $\phi\rho\dot{\epsilon}\nu\alpha s$ $\dot{\eta}\lambda\dot{\epsilon}\dot{\epsilon}$ (β 243). Cp. A. Fritsch 'De hyphaeresi' ('Stud.' vi. 108). — We may perhaps conclude from the ONorse form vidja 'hoop,' that the ϵ of the corresponding $\epsilon\iota\tau\dot{\epsilon}\alpha$ (No. 593) 611

On the by-form -no-s, cp. 'Stud.' ii. p. 187.

form cannot part off into two different later forms, really so certain, as to make impossible an explanation which recommends itself to us, as we see, from so many sides ? I may refer 631 on this point to my discussions of sporadic change of sounds on p. 426 ff. We have learnt to recognize roots like μεργ (No. 150) and μελγ (No. 151), άρκ and άλκ (No. 7) the duality of which is based upon the parting of the r into r and l. The Skt. suffix ēja occurs in Greek in three phases (cp. 'Stud.' ii. 187), ηιο, e.g. Herod. ἀνθρωπήιο-ς, ειο, e.g. Homer. χρύσειο-ς. eos also retained as early as Homer in χρύσεο-ς, to say nothing of the 'splitting' of the a into a, ϵ , o, because we have now before us on this point such diverse attempts which yet can hardly altogether deny the fact. The transformation of the F took a still more varied form. A varied treatment of those sounds in particular, which even in early times in the independent life of a nation were ill-suited to its organs, seems to me to be easily comprehensible psychologically. I agree on this point with a remark of Joh. Schmidt's, who expresses himself in 'Ztschr.' xxiii. 293 in the following way: 'at the time when in most of the cases where j stood alone it had been lightened into a rough or a smooth breathing, in those which were left it became hardly pronounceable, and required a special exertion of the organs of speech. The consequence was that in order to articulate j the corresponding sonant closed sound was used at the beginning, etc.' I do not attempt to decide whether really a palatal g formed originally the strengthening of the j, as Joh. Schmidt thinks, and then this afterwards passed into a &, or whether the latter came in at once. But what is there to surprise us if, in spite of this attempt to succeed in pronouncing a sound which was not yet entirely lost to the linguistic sense, in other cases this entirely disappeared? Both phases of the language then extended themselves further, and are preserved to us side by side like so much that has originated successively.

(6) What we put forward here hypothetically, is universally recognized for the beginning of a word. There is a ζ as the representative of a j. Is there now any adequate reason to deny this process persistently for the middle of a

it has been shown to be quite improbable that the ϵ arose from a j. Wackernagel tries to defend the old comparison of $-\epsilon v$ with the Skt. ju, holding that a j has fallen out between ϵ and v.

3. j as v.

III. CHANGE OF j INTO OTHER CONSONANTS.

A. jas y.

In the mouth of a modern Greek γ has in many cases (cp. Deffner 'Stud.' iv. 241) the pronunciation of a spirant. Here belongs especially $\mu\nu\hat{\imath}\gamma a = \mu\nu\hat{\imath}a$, where γ has developed itself out of the ι of the diphthong, as in many other cases where Mullach (140) and before him Giese (295) have explained the γ with less probability as proceeding from $F: \kappa \alpha \nu \gamma \omega$ (pron. $k\bar{a}\nu jo$), $\kappa\lambda \alpha i\gamma \omega$ (pron. $kl\bar{a}jo$), $\alpha \nu \gamma \delta - \nu$ (pron. $a\nu j\delta$) 'egg,' which comes, as we saw at No. 597, from $a\nu ja-m$. This mod. Greek γ pronounced as a spirant is, strictly speaking, a surviving not a transmuted j. Since in the Teutonic family g is sometimes developed from j (Grimm 'Gr.' i. 187, 220), the g of the OHG. plural eig-ir and the English egg no doubt also corresponds to this spirant ¹. [Cp. March 'Anglo-Saxon Grammar' § 28.] — The people of Salamis in Cyprus called sulphur

have adopted it and used it to some purpose. — Passow 'Philol.' xx. 587 treats at great length of $\epsilon \nu$ in proper names.

¹ Joh. Schmidt, who at 'Ztschr.' xxiii. 291 ff. discusses at length the change of j to g, denies this change for German at the beginning of his paper, maintaining that the fact that g succeeds to the

θέαγον according to Hesych. With M. Schmidt (Ztschr. ix. 368) we must here compare the y with the i of the Ionic form $\theta \epsilon \hat{\eta}_{iov}$, i. e. regard γ as a means of writing j. — The case of the glossematic word ayoupo-s is peculiar. In Byzantine authors this word occurs in two senses; it is used for 'young people' and also as an adjective in the sense of 'unripe,' e.g. ἔλαιον ἄγουρον 'oil from unripe olives' (ὁμφάκινον). Cp. Stephanus 'Thes.' In the second meaning the word is in general identified with αωρος, which means the same thing, and as we concluded at No. 522 that woa had originally an initial j, we may unhesitatingly regard the of the word ayoupos 'unripe' as the successor to a j. The only doubt remaining is whether y is merely the sign for 613 a still surviving j or a representative of an earlier j. For ou in place of an Old-Gk. w I may refer to Deffner ' Neograeca,' 'Stud.' iv. 302 ff. (e. g. psumi=ψωμίον. At p. 308 of the same paper ayuríba is mentioned as still current in the sense of δμφαξ. Then comes the question is ἄγουρος τόμηβος the same word, and did it likewise come from awpos 'unripe' with a reference to the 'fresh green' of youth? The history of this ayoupos is a somewhat complicated one. It occurs in Eustathius ad 'Odyss.' p. 1788, 56 in a collection of ovoquata

position of a j presupposes a pronunciation of g as a spirant, that accordingly the OHG. gehan was really pronounced jehan. I am not in a position to test the correctness of this assertion. Granted however that it is correct, still in the English egg this change, however it be explained, is an established fact, as Joh. Schmidt p. 295 himself admits for this word and also for the Italian rimango, salgo. In the German Gischt too we pronounce a g which has arisen from a j. It appears to me that we cannot be too careful in such questions to distinguish between the facts and their explanation. I have only maintained that as a fact y takes the place of a j in Greek too in certain cases; whether it does so directly or by means of certain intermediate steps, and by what steps, are different questions. Consequently, when Joh. Schmidt p. 292 maintains that 'the assumption of a direct change of j to g is a mistake,' this remark does not concern me at all, but it is foreign to my purpose to enter upon the distinctions of physiological phonetics which he holds necessary for establishing the connexion of the two sounds, while I am much inclined to adopt a great deal of what he says.

ήλικίας, the main body of which at all events (cp. Nauck 'Aristoph. fragm.' p. 88 sqq.) comes from Aristophanes of Byzantium: 'Αχαιοί δὲ (i. e. τοὺς ἐφήβους καλοῦσι) κούρους Θράκες δὲ ἀγούρους. This would lead us to reckon the word a Thracian one, were it not that the added ώσαύτως καὶ 'Αττικοί recommends caution and that the passage in the 'Etymologicum Gudianum' p. 124, which elsewhere corresponds word for word with the above, has in place of $\Theta_{\rho\alpha\kappa\epsilon}$ the senseless καδες which Nauck rightly interprets 'Αρκάδες. Thus we see that our authorities furnish no warrant for the assumption that we have here to do with a Thracian word and Fick's ingenuity in identifying the word ('Spr. d. Indog. Eur.' p. 421) - with Joh. Schmidt's hearty approbation - with the Zend aghru=Skt. ágru 'unmarried,' is this time thrown away. It is probable on the other hand that this ayoupg was also a genuine Greek word and identical with the other. If Nauck is right ('Mélanges Gréco-Romains' ii. 329, cp. I. Bekker on the Odyssey n 64), ayoupos actually occurred in the Odyssey of Aristophanes Byzantius: τὸν μὲν ἄγουρον ἐόντα βάλ' ἀργυρότοξος 'Απόλλων | νυμφίον έν μεγάρω μίαν οίην παίδα λιπόντα instead of the akoupov of the MSS. and, it appears, of Aris-614 tarchus. If so ayoupos must have counted as an antiquated word in the Alexandrian period.

σωγάσαι σῶσαι Hesych. by the side of σωάδδει παρατηρεί clearly shows that there was once a spirant between ω and α . This spirant I formerly assumed to have been a j, in which case the stem-word would have been a *σώιο-s formed from σῶος, and from this would have come *σωιάζω like μετριάζω from μέτριο-ς. Nevertheless I grant to Joh. Schmidt (' Ztschr.' xxiii. 296) that it is also possible that *σωγάζω arose from *σω Fo-s as δοκιμάζω did from δόκιμο-s and that the common representation of f by γ makes this the more probable of the two (cp. Fick ii³. 255). — On the other hand I cannot agree with the same scholar in denying that in ποτικλαίγω the γ, as Meister 'Stud.' iv. 428 was the first to recognize, arose from a j. This κλαίγω (cp. ποτίκλαιγον) is clearly a dialectic variety of the old Attic κλήω, later κλείω ('shut') and γ arose from j perhaps in the way indicated by Joh. Schmidt, through an intermediate gj. There is no analogy in Greek

word-formation for the assumption that $\kappa\lambda\alpha i\gamma\omega$ is a denominative verb formed from the Dor. $\kappa\lambda\hat{a}\xi$, acc. $\kappa\lambda\hat{a}\kappa$ -a, found on the inscription from Andania. Apart from the weakening of the κ to γ , which seems to me no trifle, the Greek language can, if we except a very few verbs (e. g. the Homeric $\theta\epsilon\rho\mu\epsilon\tau o$), show no evident denominatives without some derivative syllable in the present-stem. The assumed $*\kappa\lambda a\kappa$ - ω would be as unheard of as, say a $*\phi\nu\lambda a\kappa$ - ω or $*\phi\rho\rho\mu\nu\gamma\gamma$ - ω instead of $\phi\nu\lambda\hat{a}\sigma\sigma\omega$ $\phi\rho\rho\mu\hat{\iota}\zeta\omega$. Cp. 'Greek Verb' p. 229.

Are we able then to find analogies to these processes partly confined to late Greek, partly to particular dialects only. from the ordinary Greek of early times? This question must be answered in the negative 1. In proof of the fact that v was pronounced soft in certain combinations of sound and in particular after i, attention has been called to its instability, e.g. in the Boeotian lών, lώ (Ahrens 'Aeol.' 206) hardly $i\omega\nu$ — for $\epsilon\gamma\omega\nu$, $\epsilon\gamma\omega$, in the Tarentine $\delta\lambda$ ios = $\delta\lambda$ ivo-s (Ahrens 'Dor.' 87), which however is ridiculed in Hyperbolus by the comic writer Plato (Herodian ii. 926 ed. Lentz), and consequently was a pronunciation known in Attica, in σίαλο-ν 615 'spittle' (salīva), σίαλο-ς 'fat' by the side of σιγαλό-εις 'shining' (Lobeck 'Prolegg.' 341, cp. Fick i3. 843), and in $\phi_{\ell\alpha}$ λία by the side of Φιγαλία. In none of these words however can it be proved that the y came from the j, while in some the relation of the two letters is the converse. As regards the numerous future, agrist and derivative formations not only Epic but also specially Doric, which show a & where the present has a (it will be enough here to refer to my 'Greek Verb' p. 452 ff.

¹ The assumption that the Gk. rt. γεμ preserved in the Homeric γέντο 'grasped' and in Hesychius' glosses ἀπόγεμε ἄφελκε, ἔγγεμος συλλαβή Σαλαμίνιοι (by the side of the enigmatical γένου Κύπριοι καὶ λαβέ καὶ κάθιζε) is identical with the Skt. jam 'hold,' 'bind,' I retract, now that Fick ii³. 344 has without assuming any irregular sound-change connected the rt. γεμ with the ChSl. žim-q, inf. žę-ti 'comprimere.' The Lat. em-ere is to be referred to a rt. am 'take' (cp. No. 449 b).

B. Relation of j to ζ and δ .

The representation of an original j by ζ is a fact universally recognized, but it can only be understood and explained in connexion with a large number of other facts. We have here to do with wide-spread phenomena, of which only a portion have been hitherto recognized, while others have been here and there guessed at, and many have not yet been even mentioned: so that it seems best to throw the discussion which follows into the form of a connected investigation.

1. (as the representative of dj.

It is universally acknowledged that ζ frequently represents a dj occurring before the Greek language was formed. The process of change was undoubtedly that stated by Schleicher ('Zur Vergl. Sprachengeschichte' p. 40 ff.). Under the influence of the soft dental consonant the palatal spirant, which followed it, passed over to the dental organ, changing into the sound which in French, Bohemian, and Polish is denoted by z, while we Germans distinguish it in pronunciation as a soft s, although we represent it by the same character as the hard or sharp s [German z being pronounced as ts]. ζ , which is shown by its influence in prosody to be a double consonant, is the expression in writing of dz^1 . The following are certain instances of the representation of an older dj by ζ :

This view of the sound of the ζ , widely held, I believe, among German philologists, is disputed by Ascoli 'Krit. Stud.' p. 364. A. denies that there is any explosive element in ζ , the pronunciation of which he represents by $\dot{z}\dot{z}$, i. e. (cp. 'Vorles. üb. Lautlehre' p. 22) as I should write it zz, that is to say a doubled or thickly pronounced soft or sonant s, as it is pronounced e.g. in the Low German drusseln. Certainly this was the sound of the ζ in the later classical period, that which the Romans tried to reproduce by ss (atticisso). It survives thinned down to a single z among the modern Greeks. But several reasons may be adduced in support of the view that at an earlier date the d-sound, to which etymology so often points, was not yet extinct in the ζ , above all the Lesbian metathesis to $\sigma\delta$ and the origin of ζ from $\delta\iota$ on Greek soil. A. quotes in support of the simple nature of the ζ , which he maintains, the fact that ζ does not make

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The name Zev-s has been mentioned already under the rt. δι F (No. 269). L. Havet in the 'Mémoires' ii. 177 has made it very probable that for this stem we must start from the disyllabic primitive form diu. This primitive form appears (1) with a transition from i into j before consonantal suffixes in Sanskrit, e.g. in the instrum. pl. djú-bhis (' with the days'). By addition of sound there arises the form djau Gk. $Z_{\epsilon \nu}$, whence the voc. $Z_{\epsilon \hat{\nu}}$, nom. $Z_{\epsilon \hat{\nu}-s}$, and further, as the u before vocalic suffixes became a consonant Skt. djav (e. g. loc. djáv-i), Osc. Διουξ in the dat. Διουξει (Mommsen 'Unterit. Dial.' 191), and with the addition of a stem-forming i, the OLat. nom. Diov-i-s, and finally with the loss of the initial d Jovi-s as a nom. sing., and by a kind of contraction Jū, in the Umbrian Ju-pater Lat. Juppiter (Corssen 'Aussprache' i. 365). — (2) The second change of *diu consists in the u before vowels becoming a half-vowel, hence producing div. We are obliged to assume a verbal rt. div, if only on account of the Skt. de-vá-s (cp. above p. 519), which cannot possibly be derived from the shorter stem di by means of the suffix -va. For the stems with this suffix never, according to Lindner ('Altind. Nominalbildung' p. 105), raise the vowel of the stem. The stem div occurs in the Skt. acc. div-am $=\Delta \ell F - \alpha$, gen. $div - \delta s = \Delta \ell F - \delta s$, loc. $div - \ell = \Delta \ell F - \ell$, and also in the derived $\delta i_{o-s} = Skt. divjá-s$, Lat. div_{o-s} and in the OHG. Zio. For deu-s see above p. 513, and cp. Grassmann 'Ztschr.' xi. 3.

The most numerous difficulties are presented by the forms which have not retained anything either of u or of v, like the Ved. acc. sing. $dj\bar{a}$ -m=Gk. $Z\hat{\eta}$ - ν (e. g. Ξ 265) at the

position in Homer in Zέλεια and Ζάκυνθοs: but his translator has pointed out correctly, that it is only so that these proper names can fit into the verse. Hence that a line ends ἄστυ Ζελείης Δ 103 no more proves anything for the simple pronunciation of the ζ , than ποταμοῖο Σκαμάν-δρον Λ 499 does for that of σκ. Besides, a syllable before ζ in the middle of a word is invariably long. Modern Greek dialects in some words retain the pronunciation dz which we assume for the old ζ , e.g. dzarkādion (= ζ ορκάδιον), dzάκονος (= δ ιάκονος), dzάνυds (= δ ιάβολος) and also in Locr. ándzeds= ἄγγελος (Chalkiopulos 'Stud.' v. 358 f.).

end of a verse (Leo Meyer 'Ztschr.' v. 373). Even Gottfr. Hermann 'El. doctr. metr.' 351 saw that there was no place here for apostrophe, and I. Bekker and Lachmann (in 'Lucret.' p. 81) agree with him. So Δίαν τὸν οὐρανὸν Πέρσαι (cp. Herod. i. 131). If we do not choose to refer these forms to the shorter rt. di, the v must have disappeared entirely, much as in the Skt. acc. $g\bar{a}$ -m 'cow' = Dor. $\beta\hat{\omega}$ - ν (st. gav). The nom. to this $Z\hat{\eta}$ - ν , i. e. $Z\hat{\eta}$ -s (like Dor. $l \in p\hat{\eta}s = l \in p \in \hat{\nu}$ -s) is quoted by Herodian (ii. 911, 8) from Pherecydes, and also 617 Zά-s, from which came also the metaplastic form Zαντ-ός (like στά-s, στάντ-os). [Bekker 'Anecd.' 1181, 1184]. — The forms current from Homer $Z_{\eta-\nu-\delta\varsigma}$, $Z_{\eta-\nu-\ell}$, $Z_{\eta-\nu-\alpha}$ are based upon an expansion with v like the plur. 1-v-es beside 1-s (No. 592). — Finally we have still to mention forms, in which there appears no appended vowel after ι , like the nom. Δi -s, for which Herodian is also our authority, and the stem $\Delta \epsilon \iota$ (doubtless only a corruption for Δī in Δει-πάτυρο-ς θεὸς παρὰ Στυμφαίοις, Hesych.). I have shown, I believe, in my 'Quaestiones etymologicae' (Kiel 1856) that we have in this Epirote name of a divinity an old compound, to be compared with Umbr. Ju-pater, with a paragogic ending, as in Αντίπατρος, Σώπατρος and a v (cp. δια-πρύ-σιο-ς) dulled from ϵ (cp. $\epsilon \dot{v}$ πατέρεια).

The forms in which ζ is represented by δ are discussed on p. 620.

We go on to the instances in which, within the limits of the Greek dialects, we detect a transition from $\delta\iota$ before a vowel to ζ . Evidently these changes have been effected considerably later.

In the Aeolic dialect of Lesbos the transition from $\delta\iota$ to ζ is a fact often mentioned by the old grammarians. Ahrens p. 46 quotes from the fragments of the Aeolic poets, and from citations of the grammarians the following instances: $\zeta \acute{a} = \delta\iota \acute{a}$ in $\zeta \grave{a}$ $\nu\nu\kappa\tau\acute{o}s$, $\zeta \acute{a}\beta \alpha\tau os$, $\zeta \acute{a}\delta\eta\lambda os$, $\zeta a\epsilon\lambda\epsilon \xi \acute{a}\mu a\nu$, $\zeta a\beta \acute{a}\lambda\lambda\epsilon\iota\nu$, $Z\acute{o}\nu\nu\nu\sigma os^{-1} = \Delta\iota\acute{o}\nu\nu\sigma os$. There is further from the nearly related Cyprian $\zeta \acute{a}\epsilon\iota$: $\pi\nu\epsilon \ildot \ildot$

The form *Zόννυξος ('C. I.' 2167) has no support, since Conze in his 'Reise auf Lesbos' Plate ix. 1, 5 showed that the reading was τῶ θεῶ (Z)οννύσω, according to which in line 3 of the same inscription the

hard to reconcile. For no one of these words, except vanád (rt. van 'desire'), is a root to be discovered. Latin does not

present a single stem in ad or ĕd, but a few in id, hardly more than lapid, capid, cassid, cuspid, promulsid, and a still smaller number in d: fraud, laud, in the case of which it is not even certain that the d is to be taken as a suffix. Among the stems in id capid (nom. capis 'goblet'), assuming that it is not a foreign word (cp. on No. 34), admits most easily of being referred to a rt. kap, lap-id Fick ii3. 218 attractively compares with λέπας 'rock,' 'cliff.' Still Λάπιθο-s, the name of a mountain in Arcadia, readily occurs to us, so that we might trace back the d, as is always legitimate within a Latin word, to an original dh. The greatest degree of likeness is presented by pecu-d beside pecu, which is like έρι-δ beside έρι and may be immediately compared with χλα-μυ-δ, προσ-ηλυ-δ. hērēd, merced, custod with their long vowels, evidently secondary 638 formations, have absolutely nothing corresponding to them in Greek. We can therefore at most say that a very small number of Latin stems in d bear a certain resemblance to the common nouns in -18 and -v8, while the widely diffused employment of the suffixes - τδ, - ιδ, - αδ to form feminine personal names and diminutives has absolutely nothing corresponding to it among the Romans, and, besides this, the d in Latin cannot in any single form be with certainty proved to be a sound identical with δ. Hence as early as my essay De nom. form.' pp. 6-10 I endeavoured to show that this & did not belong either to the stem or to the suffix, as an integral part. This was recognized by Kuhn in his review of this essay ('Jahrb. f. wissensch. Kritik' 1843 p. 31) at any rate for some important classes of forms, with the addition that this & seemed to have originated from a j. This remark, although accompanied by phonetic analyses, which differ from the views here stated, suggested to me the whole of the investigation of the relation of δ to j here given. It was indeed a very natural idea to explain a sound which was as rare in other languages as it is common in Greek, from phonetic tendencies, which are limited to Greek.

In the criticisms which my theory has met with recently, strangely enough the fact upon which I support it especially, trissimus; 'cp. also Eng. thorough]. διά is indeed itself derived from δρια, as has been shown under No. 277; and this proves the fact—which is remarkable phonetically—that the sound j was still present in Greek after the loss of the f from this sound-group. On the other hand Hartung's connexion of this ζά with ἄγαν, and even with Skt. saha ('Partikeln' i. 355) is to be absolutely rejected. — διακόσιοι, is scanned as four syllables (πεντάκι διακόσιοι) in Anthol. xi. 146, on which Lobeck 'El.' ii. 106 justly remarks: 'fortasse ζακόσιοι audiri voluit.' Only we must remember here that Hartel 'Homer. Stud.' iii. 15 deals with the word from the points of view mentioned on p. 606. ζ is pronounced as a single letter.

b. In the middle of a word.

Here we must quote in the first place those present stems in ζ , which are derived from verbal stems in δ . For it has been proved long ago that this δ became ζ by its union with the formative syllable of the present stem. Verbs of this kind with roots in δ are: $\tilde{\epsilon}\zeta$ - σ - $\mu\alpha\iota$ rt. $\dot{\epsilon}\delta$ (No. 280), $\delta\zeta$ - ω rt. $\dot{\epsilon}\delta$ (No. 288), $\sigma\chi(\dot{\zeta}-\omega$ rt. $\zeta\chi(\dot{\delta})$ (No. 295), $\chi\dot{\epsilon}\zeta$ - ω rt. $\chi\dot{\epsilon}\delta$ (No. 186). Cp. 'Greek Verb' pp. 201 ff. and especially p. 222 ff.

The noun-ending -ια unites with a preceding δ to form -ζα in the Aeol. κάρζα = καρδία (Ahr. 46) [cp. Aesch. 'Supp.' 71, 'Theb.' 288 Dind.], in άργυρό-πεζα, κυανό-πεζα, τρά-πεζα (for $\tau \epsilon \tau \rho \alpha - \pi \epsilon \langle \alpha \rangle$, the origin of which from $-\pi \epsilon \delta - \iota \alpha$ (cp. Lat. acuped-iu-s No. 2) cannot be doubted (Leo Meyer 'Bemerk.' p. 63). From the same root, also with the vowel ϵ , come the simple words $\pi \epsilon \zeta \delta$ -s' pedestris' = $\pi \epsilon \delta$ -10-s, $\pi \dot{\epsilon} \zeta \alpha$ ' foot,' 'edge' = $\pi \epsilon \delta$ ια (No. 291). — In χάλαζα we recognized (No. 181) the st χαλαδ, which was referred to Indo-Germ. ghrād. — χθι-ζό-ς 'of yesterday,' πρωι-ζό-s 'of the day before yesterday,' certainly contain a stem & Fo (cp. Lat. die-s) which we discussed under No. 269 and under $\delta o \acute{a} \nu$, $\delta \acute{\eta} \nu$ p. 572 and p. 588. — From the same rt. dif, or, what comes to the same thing for the phonetic change to be discussed here, from the shorter rt. & of the same meaning, comes api-(nho-s, the second part of which is equivalent to δηλο-ς: ἀρί-ζηλοι δέ οἱ αὐγαί (N 244), άριζήλη φωνή (Σ 219). I. Bekker indeed ('Hom. Bl.' i. 291) divides the word into άρις-δηλο-ς, regarding άρις, on the score of the proper name ' $A\rho i\sigma \beta \eta$, as a by-form of $d\rho i$ (cp. $d\mu \phi i$ $d\mu \phi is$, $\pi o \lambda \lambda \delta \kappa i \pi o \lambda \lambda \delta \kappa is$). But the origination of ξ from $\sigma \delta$, to which we return below, is by no means a well-established process, and we need no postulated form, if we derive the word from $d\rho i - \delta j \eta \lambda o - s$. The same form probably occurs in $\delta i - a\lambda o - v$ $\phi a v \epsilon \rho \delta v$ (Hesych.), where the α is no doubt long, as being the Doric representative of η (cp. $\delta i \delta \lambda a s$: $\phi a v \epsilon \rho \delta s$). But $d\rho i - \xi \eta \lambda o - s$ is the regular transmutation of $d\rho i - \delta j \eta \lambda o - s$. In the common form $\delta \eta \lambda o - s$ the j also has been completely lost (cp. No. 269 and Schrader 'Stud.' x. 319). — Just as in the corresponding verbs, so in the substantives $\delta \xi \eta$, $\sigma \chi i \xi a$ we may derive the ξ from dj. — $\rho i \xi a$ (No. 515) was shown to be a transmutation of $\xi \rho i \delta - j a$, $\xi \rho a \delta - j a$.

2. (developed from gj through the intermediate stage dj.

The origination of ζ from gj is as universally recognized as its origination from a dj belonging to a stem. It is not probable that the ζ so originated was phonetically different from that just discussed. Here too ζ is a double consonant, the first element of which is dental. Hence to get from gj to ζ we must assume the intermediate stage dj^1 , or in other words, the guttural medial shifted to a dental before j, and then pursued the same course with the following j as the original δ . We shall soon see how important it is to keep this intermediate stage in view. The phonetic changes $gj-dj-\zeta$ we must recognize in the following cases.

Of present stems in ζ the following certainly belong here: αζ-ομαι cp. αχ-ιο-s (No. 118), γογ-γύζ-ω (No. 136), κράζ-ω which was discussed on p. 534 (κέ-κραγ-α), νίζ-ω (No. 439), 620 ρέζ-ω 'dye' (No. 154), ρέζ-ω 'do' (No. 141), στάζ-ω 'drop' (σταγ-ών) στίζ-ω (No. 226), σφύζ-ω 'well' (σφυγ-μό-s), and also some which have lost a nasal: κλάζ-ω (κλαγγή), πλάζ-ω (ἐπλάγχθη-ν No. 367), and various verbs in which the γ has perhaps (cp. above p. 535) been softened from κ , as in κλώζ-ω 'cluck' = $gl\bar{o}c$ -i-o (Walter 'Ztschr.' xii. 410),

¹ I shall return on p. 666 to the view of Ascoli, which differs on this point, and is now developed fully in his 'Kritische Studien' p. 324 ff.

στενάζω (cp. στενάχω No. 220), σαλπίζω: this is certainly the case in $\pi\lambda$ άζω. We see from this that the softening of κ to γ , mentioned above, is older than the transformation of the j.

Of the comparatives of less usual formation we may thus explain $\mu\epsilon i\zeta\omega\nu$ (Ion. $\mu\dot{\epsilon}\zeta\omega\nu$) = $\mu\epsilon\gamma$ - $\iota\omega\nu$ and Hom. $\dot{\upsilon}\pi$ - $o\lambda\dot{\iota}\zeta\omega\nu$ = $\dot{\delta}\lambda\iota\gamma$ - $\iota\omega\nu$ (No. 553).

Similarly noun-formations like $\mu \hat{a} \zeta a$ by the side of $\mu \acute{a} \gamma$ - $\epsilon \iota \rho o - s$ with a softened guttural (No. 455) and $\phi \acute{\nu} \zeta a$ from the
rt. $\phi \iota r$, cp. $f \iota g - i o$ (No. 163). In both we must assume the
suffix $-\iota a$. The adjectives $\phi \iota \iota \zeta a - \kappa - \iota \iota \iota \acute{o} - s$ (N 102) $\phi \iota \iota \zeta a \lambda \acute{e} o - s$, $\phi \iota \iota \zeta \eta \lambda \acute{o} - s$ and Hesiod's $\mathring{a} - \phi \iota \iota \zeta a - s$ (Schol. on ϕ 528) seem explicable from the noun-stem $\phi \iota \iota \zeta a$. On $\pi \epsilon \phi \iota \iota \iota \zeta \circ \iota r$ cp. p. 491,
on the remarkable $\zeta \epsilon \iota \iota \iota r \sigma a \sigma \theta a \iota r$ p. 486.

For ζά-ω on p. 491 we assumed an origin in γjά-ω.

3. δ and δδ as representatives of δj.

Over against the ζ of ordinary Greek, whatever its origin, there stands in various dialects a δ at the beginning, or in the middle of words frequently a $\delta\delta$. Although I do not agree with Ascoli as to the phonetic value of ζ , I am inclined to follow him in holding that the ζ can claim on the whole the priority over δ or $\delta\delta$. Cp. Beermann 'Stud.' ix. 69.

(a) initial $\delta = dj(\zeta)$.

It is well known that by the side of the forms of $Z\epsilon\hat{\nu}$ -s beginning with Z (p. 616) there are others in several dialects beginning with Δ^1 . The forms $\Delta\epsilon\hat{\nu}$ -s (Aristoph. 'Ach.' 911) and $\Delta\hat{\alpha}\nu$ (cp. $Z\hat{\alpha}\nu$) are Boeotian (Ahr. 'Aeol.' 175), the former also Laconian (Ahr. 'Dor.' 95). Herodian ' π . $\mu\nu\nu$. $\lambda\hat{\epsilon}\xi$.' ii. 911 (Lentz) quotes the nominative $\Delta\hat{\eta}\nu$, the accusative of which

1 οὐ Δῶν, which is well established in Theocr. iv. 17, vii. 39 also belongs here, if with Ahrens ('Philol.' xxiii. 206) we regard it as parallel to the Hom. Zην. Ahrens assumes the same for the Attic formulae of protestation φεῦ δᾶ, πόποι δᾶ, οἰοῖ δᾶ, ἄλευ' ἄ δᾶ, and this is confirmed by other instances of the representation of an original <math>dj by δ. The long a is to be compared with that of 'λθάνα (Soph 14 [and always in Tragg., cp. Ellendt in voc.]). [On the explanation (e. g. Paley in Theocr. iv. 17, Aesch. 'Prom.' ξ Liddell and Scott s. v. δᾶ), δᾶ=γη̂, see above p. 492].

beside Αὔλιδ-α (v. 88), and conversely φρον-τίδ-os by the side of πίσ-τι-os. There is certainly no consistency of practice, for we have genitives like ἔριδ-os, ὅπιδ-os, but in the acc. ἔρι-ν, ὅπι-ν by the side of ἔριδ-α, ὅπιδ-α¹.

Among the personal feminines in -t with an accessory & the patronymics deserve to be brought into especial prominence. The Skt. -ī serves for precisely the same purpose, and indeed with the same accentuation of the vowel (Bopp 'Vergl. Gr.' iii2. 376): Drāupad-ī daughter of Drupada, like Πριαμί-s daughter of Πρίαμο-ς, so Τανταλί-ς, Δαρδανί-ς, Τυνδαρί-ς, etc. (Angermann 'Stud.' i. 1, 45 ff.). The final vowel is thrown away before the i in both languages. After a consonant simply i is added: Πανδιον-ί-s. The diphthong ev is in the Homeric dialect treated as in the gen.: Nnpev-s Nnpn-t-s, i.e. NnpeF-i-s, cp. $N\eta\rho\hat{\eta}$ -os, ' $E\rho\epsilon\chi\theta\eta$ -t-s (cp. Ebel 'Ztschr.' iv. 171). The feminine patronymic, however, in its formation quite agrees with numerous other half adjectival forms. It does not admit of doubt that Ppiauis denoted originally 'she who belongs to Priam,' in whatever sense of the word2. Hence we have also feminine names of tribes, as in Pindar Aloλη-t-s belonging to the masc. Aioλεύ-s, and in fact the meaning of such adjectives is extended to that of relation in the widest sense; thus Z 193 τιμής βασιληΐδος, Pind. 'Ol.' i. 102 βασιληΐδα τιμήν. Thus 'Αλαλκομενηΐ-s 'the protecting,' an epithet of Athene, is simply the feminine to the masc. 'Αλαλκομενεύ-ς, a word which is quoted in 'E. M.' as an epithet of Zeus. Masculines in $-\epsilon \hat{v}$ -s as 'paraschematisms' from participial forms [i.e. formed from them by a change of inflexion], were discussed 'Ztschr.' iii. 79 and above p. 611. Cp. Δαμναμενεύ-s (Apoll. Rhod. i. 1131), 'Ιδομενεύ-ς. In forms like βασιλ-ί-ς, Αίολ-ί-ς,

¹ Valuable collections as to the varying δ are to be found, not only in Kühner ('Ausf. Gr.' i. 329), but also in Bredow 'De dial. Herodotea' p. 268, and especially in Rzach 'Der Dialekt des Hesiodos' p. 405 and 'Grammatische Studien zu Apollonios Rhodios' (Vienna 1878) p. 78 f. To the last scholar I owe some of the more detailed information here given.

² The difficulties, which stand in the way of the view propounded by Benfey, that these words denote properly the wife, so that Πριαμίδ-η-s means 'son of Priam's wife,' are stated by Pott ii². 888.

Eimer 'pail,' but OHG. eimpar (from përan 'bear'), 'a vessel which can be lifted with one hand; 'cp. Grimm 'Dict.'iii. 111] Zu-ber [Eng. tub, OHG. zuipar 'lifted with two hands']. From δίαγκλο-ν there would then be formed on the one hand by assibilation of the ι ζάγκλο-ν, ζάγκλη, the name which the Sicels according to Thuc. vi. 4 gave to the sickle, on the other hand by the loss of the ι the forms δάγκολον and Δάγκλη. — In Aleman's $\delta o \dot{\alpha} \nu = div \bar{a}$ -m, too, discussed above (p. 572), the j has been similarly suppressed after δ , just as in the Lat. $d\bar{u}$ du-m by the side of diu (Fleckeisen 'Jahrb.' 1870 p. 71), biduu-m for bi-divu-m. But also $\delta \hat{\eta} \nu$, as distinguished from πρωι-ζά according to the explanation given on p. 619, has suffered the same loss. - Similarly by the side of (a-, explained to be from $\delta\iota\acute{a}$, on p. 602, we have the form $\delta\alpha$ - in $\delta\alpha$ - ϕ 0- $\iota\nu\acute{o}$ -s, δά-σκιο-ς, probably also in δά- π εδο- ν . — Plato the comic poet 622 ridiculed Hyperbolus the demagogue for pronouncing διητώμην as δητώμην (Herodian ii. p. 926). We may conjecture that this pronunciation, censured as un-Attic, was not limited to this one man, but was more widely spread. We see from these last examples, scanty as they are, that the representation of $\delta\iota$ or δj by a simple δ was not entirely limited to Aeolic and Doric dialects.

(b) $\delta\delta$ or δ for dj (ζ) in the middle of a word.

The Boeotian, Laconian, and Megarian dialects have $\delta\delta$ in the place of the ordinary Greek ζ in the middle of words (Ahr. 'Aeol.' 175, 'Dor.' 96): thus Boeot. $\kappa\rho\iota\delta\delta\dot{\epsilon}\mu\epsilon\nu$ for $\kappa\rho\dot{\iota}\zeta\epsilon\iota\nu$ $\gamma\epsilon\lambda\dot{a}\nu$, Lat. $r\bar{\iota}d-\bar{e}re$, where there is no doubt that the δ belongs to the stem. It is therefore certain that we must here presuppose * $\kappa\rho\iota\delta$ - $j\epsilon$ - $\mu\epsilon\nu$. Where the final letter of the root is a guttural, we must, as above, assume one more step; thus in the Megar. and Boeot. $\mu\dot{a}\delta$ - $\delta\alpha = \mu\dot{a}\zeta a$, i. e. $\mu\alpha\delta$ -ja, the earlier stage $\mu\alpha\gamma$ -ja (No. 455), Boeot. $\sigma\phi\dot{a}\delta$ - $\delta\omega = \sigma\phi\alpha\delta$ - $j\omega$, $\sigma\phi\alpha\gamma$ - $j\omega$, $\sigma\alpha\lambda\pi\dot{\iota}\delta\delta\omega = \sigma\alpha\lambda\pi\iota\delta$ - $j\omega$, $\sigma\alpha\lambda\pi\iota\gamma$ - $j\omega$. Here belongs also the Boeot. $\dot{\rho}\dot{\epsilon}\delta$ - $\delta\omega = \dot{\rho}\dot{\epsilon}\zeta$ - ω , which is of special interest to us, inasmuch as it explains the Attic and Ionic pres. $\dot{\epsilon}\rho\delta\omega$. The rt. $F\epsilon\rho\Gamma$ (No. 141), whence come $\dot{\epsilon}\rho\gamma$ - $o\nu$, $\dot{\epsilon}$ - $o\rho\gamma$ -a, when the expanding j of the present was added, must have g $j\omega$, $F\epsilon\rho\delta$ - $j\omega$. According to the analogy of $\sigma\phi\alpha\delta$.

ought to have had from Fερδ-jw *Fερζω, but after ρδ the spirant was entirely lost, and we only find a trace of it in the dentalizing of the γ: Fέρδω. By metathesis Fepr became Fper (cp. δερκ — δρακ, Fep — Fpe), and this form too made its present by the addition of the j: Γρεγ-jω, Γρεδ-jω Boeot. ρέδ-δω. Ion. ρέζω, for here the ζ could easily be pronounced after the vowel. To formations of the latter kind belong also ρεχ-θέ-ν, $\dot{\rho} \epsilon \kappa - \tau \dot{\rho} - s$ (cp. $\dot{\epsilon} \rho \rho \dot{\eta} - \theta \eta - \nu$, $\dot{\rho} \eta - \tau \dot{\rho} - s$). Even Buttmann (* A. Gr.' ii. 286) justly called attention to the entirely corresponding metathesis in the Eng. wrought by the side of work. But neither he, nor the earlier comparative grammarians (cp. Benfey i. 84, Christ 245) succeeded in explaining the δ, which is limited to the present stem. Some indeed thought of entirely separating the rts. epr and eps (Pictet 'Ztschr.' v. 47). Ahrens 'Formenl.' p. 108 comes nearest to the truth. Only he incorrectly brings in the Lesbian Aeolic forms in -σδ. But we cannot at all prove the existence of *έρσδω. The δ of έρδω I regard as an indisputable proof of my contention that δ as a representative of ζ was not entirely unknown even to the Attic dialect. I lay the more stress upon this because 623 of Corssen's attack ('Ital. Sprachkunde' p. 360). — There is a similar instance of an i, which has passed into j and has disappeared altogether, in the present $\delta \epsilon i - \delta - \omega^{-1}$, which is to be traced back to $\delta \epsilon_i - \delta_i - \omega$, $\delta \epsilon_i - \delta_j - \omega$ (No. 268). We must regard δεί-δ-ω as analogous to the Syracusan perfects with the inflexion of a present δεδοίκω, ὀλώλω (Ahr. 'Dor.' 329): one word of this kind has become established in the usage of

¹ δείδω, which occurs only in the 1 sing., is found in the MSS. in seven places of the Iliad and in four of the Odyssey, and frequently, e. g. K 39, A 470, without any variant, though sometimes with the variant δείδια, which at Ξ 54 is referred to Aristophanes. Nauck desires to introduce the latter reading everywhere, and explains δείδω as an invention of late grammarians ('Mélanges' iv. 340). I see no reason for such a view. [But cp. Cobet 'Misc. Crit.' p. 270]. In δειδήμονες also (r 56), though this again is doubted by Nauck, we cannot fail to assume a loss of the ι: cp. μαχήμων, ἐθελήμων. The notion of Mahlow ('Ztschr.' xxiv. 293) that δείδω was produced from a form *δει-δοια, *δει-δο-α, quite without analogy, by a contraction just as unprecedented — when was ἀκήκοα contracted into *ἀκήκω or δέδηε into δέδη ? — hardly needs refutation.

ordinary Greek, ήκ-ω, always with a perfect meaning; cp. 'Gk. Verb' p. 394. [Cp. στήκω and γρηγορῶ in N. T. Greek: Moulton's 'Winer' p. 26.] - Finally we must place here also the isolated forms $\delta\iota\alpha\phi\nu\lambda\dot{\alpha}\delta\epsilon\nu=\delta\iota\alpha\phi\nu\lambda\dot{\alpha}\sigma\sigma\epsilon\iota\nu$, $\delta\iota\alpha\phi\nu\lambda\dot{\alpha}\delta\omega\nu=$ διαφυλάσσων on the same inscription of the Vaxians of Teos (No. 3059, l. 11 and 18), which has supplied us already with other remarkable forms, the counterpart as it were of $T\hat{\eta}\nu\alpha$ by the side of $Z\hat{\eta}\nu\alpha$. The simple δ here, it appears, corresponds to a ζ just as much as in the Boeotian γραμματίδω beside γραμματίδδω (Beermann 'Stud.' ix. 68). We shall meet with other traces of an interchange between verbs in -(w and -oow (cp. also πλάζω and πλήσσω No. 367). The modern Greek διαφυλάγω is remarkably analogous, for here, as Maurophrydes shows 'Ztschr.' vii. 143, the y has the sound of a spirant. We should therefore have, if we take in modern Greek, to assume two by-forms of φυλάσσω, i. e. *φυλάζω (represented by φυλάδω), and * ϕ υλάω, represented by ϕ υλάjω (cp. π εινάjω, etc.).

4. j or ι with a δ prefixed.

No one doubts that ζ , especially when initial, often corresponds to a j in the cognate languages. But scholars were for the most part contented with this etymological agreement, without arriving at any clear idea of the phonetic relation of the two sounds, one to the other. Schleicher was the first who, in his essay 'Zur vergleichenden Sprachengeschichte' recognized this, and irrefutably established it on p. 48. If we have hitherto seen ζ proceeding directly from dj, and therefore defined it phonetically as dz, it follows from this that, where ζ corresponds etymologically to a j, a d has been prefixed to it.

Now to this process we have not a few parallels in other languages. From Modern Greek I have in earlier editions 624 quoted here the word $\delta\iota\acute{a}\kappa\iota = ol\acute{a}\kappa\iota o\nu$ 'rudder.' According to a kind communication from Michael Deffner of Athens the exact pronunciation of this widely current word in ordinary Greek is $\delta j\acute{a}iki$. The prefixed sound is ronounced as an interdental spirant, and the vov syllable, owing to the influence of the i of the ble has undergone the epenthesis, so common which

patronymic the α was for a time long by position before two consonants *Bopeaδj-os *Bopeaδ-s. Here the α was shortened as in the Dor. acc. $\chi \acute{\omega} p \ddot{\alpha}$ - αs from $\chi \acute{\omega} p \ddot{\alpha}$ - νs , as in the Ion. $\acute{\epsilon} \sigma \sigma \acute{\omega} \nu$ ($\acute{\epsilon} \sigma \sigma \acute{\omega} \acute{\omega}$) for $\mathring{\eta} \sigma \sigma \acute{\omega} \nu$, as in $\delta \iota \kappa \acute{\alpha} \not \zeta \acute{\omega}$, $\acute{\epsilon} \delta \acute{\iota} \kappa \ddot{\alpha} \sigma \alpha$ from $\acute{\epsilon} \delta \acute{\iota} \kappa \ddot{\alpha} \sigma \sigma \alpha$ by the side of $\delta \iota \kappa \ddot{\alpha}$, or as in the Aeol. 3 plur. $\acute{\epsilon} \phi \acute{\iota} \lambda \epsilon \nu$ and the genitive of the participle $\phi \iota \lambda \acute{\epsilon} \nu \tau$ -os, in both cases as a result of $\nu \tau$. For those who take δ as a derivative consonant, the shortness of the vowel before δ in part is in the highest degree inconvenient. Neither $\kappa \acute{\epsilon} \rho \nu \acute{\epsilon} - \delta \eta$ -s agrees, as Bréal 'Mém.' i. 207 thinks, with $\kappa \acute{\epsilon} \chi \nu \acute{\epsilon} - \tau \eta$ -s, nor $\kappa \acute{\epsilon} - \delta \eta s$ with $\kappa \acute{\epsilon} - \delta \eta s$ with $\kappa \acute{\epsilon} - \delta \eta s$.

It will not be necessary for our purpose to enter more minutely into the other stems in -aδ. But we may just remark that the greater number of them easily lend themselves to our view. By far the majority of these stems consists of feminines, which have by their side masculines in -o: γυμνά-s and γυμνό-s, λευκά-s and λευκό-s. These are related to Βορεά-ς as έτοιμά-ζω to δικά-ζω, i.e. the vowel a has been in the one case retained in both forms, in the other only in the derived form. γυμνά-ς is therefore immediately connected with γυμνά-ζ-ο-μαι. Hence we may here assume a *γυμνα-δι-ς with just the same right as above a *Bopeα-δι-s. We need not explain in detail how such stems are used in very different ways, partly through the ellipse of a substantive (όλκά-s, i.e. ναῦς, 'Ολυμπιά-s, i.e. έορτή), partly through that use of the feminine in an abstract sense, which is so common with the Greeks (άμαρ-τά-ς 'fault,' μονά-ς 'unity,' cp. ή θέρμη 'warmth'). This is the less necessary that here, just as in the diminutival use of the suffix, we find the fullest analogy with the nouns in -18, the origin of which presented less difficulties. There is only one class which will not lend itself to our theory, the adjectives of both genders like vouá-s, μιγά-s, δρομά-s, λογά-s, φυγά-s. But there are hardly a dozen of these, and 645 among them it is only the five mentioned, which are in common use, and these not before Herodotus. Many occur, either altogether or as masculines, only in isolated examples in the poets. Whether we are here to assume an illegitimate transference to the masculine gender, or whether we are tions of the Keltic dd to an original j, which Stokes discusses 625 in Kuhn's 'Beiträge' viii. 350, when we draw the deductions from this comparison.

Here we have in the first place to point out the facts.

a.
$$\zeta = j$$
.

ζειαί [δ 41, 604 cp. Hayman's note], later ζεά 'spelt,' whence ζεί-δωρο-ς ἄρουρα, is connected with Skt. jáva-s 'corn,' 'barley,' jáva-sa-m 'grass,' the Zd. yava (m.) 'field produce,' whence yévin (m.) 'fields,' and the Lith. jáva-s 'grain,' any kind of corn, pl. java-i 'corn on the stalk,' jav-ënd 'stubble' (Bopp 'Gl.,' Kuhn 'Zur ältesten Gesch.' p. 14, Pott i¹. 35). On the i in the middle of the word cp. p. 577. The connexion with είαί, είοι ὀσπρίων καθάρματα 'pods,' 'shells,' ήια 'chaff,' conjectured by ancient and modern grammarians (Lobeck 'El.' i. 100, Legerlotz 'Ztschr.' vii. 296, Zacher 'Nom. in αιος' p. 71) still seems to me doubtful, though certainly εία χόρτος, i. e. 'fodder,' in Suidas would supply a link between them. There is however a considerable difference in the meanings. Besides I know no word in which an initial j is represented sometimes by ζ , sometimes by the spiritus lenis. It is possible that hia and elai are connected with Skt. sasá 'grass,' 'herb,' 'straw,' sasjá-m 'seed,' 'fruit of the field; 'cp. Cymr. haidd 'barley' (Rhys 'RevueCelt.' ii. 115).

(έ-ω from the rt. εες = Skt. jas, according to the 'Pet. Dict.' 'to bubble' (of boiling liquids), 'to fatigue oneself,' OHG. jës, has been discussed under No. 567.

The words ζημ-ία 'penalty,' 'loss' and ζη-τρό-ς 'executioner' 1 (δημόκοινος Hesych.), probably go back to one and the same root, which we may perhaps compare (Bopp 'Gl.,' Benf. ii. 201, 'Ztschr.' viii. 89) with the Skt. jam 'hold,'

Fick 'Ztschr.' xxii. 99 wishes to refer ζητρό-s, which we know only from this one passage of Hesychius in the meaning of 'executioner, to ζη-τη-τρό-s, and hence to ζητείν. But ζητείν does not occur at all in the sense of βασανίζειν, and the executioner is very different from the official charged with the duty of investigation. - As the ζητρείου το των δούλων κολαστήριον (Hesych.) consisted in a μιλών or pistrinum (cp. Pollux iii. 5) other explanations of the word have been attempted (Legerlotz 'Ztschr.' vii. 296). With the meaning 'instrument of punishment' it would come in here very well.

'rein in.' The vowel would be lengthened, as in κρημ-νδ-1 rt. κρεμ (No. 75), the nasal dropped before the suffix -τρο. The Sanskrit words $j\bar{a}tana-m$ 'requital,' $j\bar{a}tan\bar{a}$ 'revenge,' pain,' which are connected with jat (mid.) 'strive,' but also 'requite,' show a remarkable similarity of use to that of our Greek words. Are we to deduce a rt. $j\bar{a}$, and regard the Skt. t as well as the Gk. μ as of the nature of a suffix!

(ητέ-ω is referred by Bopp 'Gl.' and Schleicher op. cit. p. 46 (cp. Fick i3. 182) to Skt. jat, which according to the 626 'Pet. Dict.' has also, especially in the middle, the meaning 'to strive after anything.' But in this case the length of the vowel remains surprising, and (ημία offers no sufficient analogy for it. The use of the Skt. causative jātájāmi is entirely different ['attach oneself to,' etc.]. We find a shorter stem in ζητόρων ζητούντων in Hesych., though with the addition γράφουσι δὲ ἔνιοι ζητητόρων, but in Photius merely with the explanation ζητητών, and in ζί-εται ζητείται (Hes., E. M.), which we may probably read with the diphthong, like the neighbouring $\zeta(\alpha)$ $\kappa \rho \iota \theta \dot{\eta} = \zeta \epsilon \iota \dot{\alpha}$. Thus we get a verb ζε-ί-ω (cp. νεικείω), ζέ-ω and a rt. ζε, which we may the more naturally connect with the equivalent Hom. 81-17μαι later δίζομαι (Pott ii1. 36), in that Homer as a rule uses this verb for the notion of seeking, and only once (= 258), uses ζητέω, which is so common a word in later writers. $\delta i - (\eta - \mu \alpha i)$ (by-form $\delta i(\omega)$) is a reduplicated form = $\delta i - \delta i \eta - \mu \alpha i$, a present perfect like ημαι, κείμαι ('Greek Verb' p. 105 f.). δ as a reduplication for & is very noteworthy as an indication that unmistakeably & originally contained & as its first element. We are thus led to the conjecture (cp. Christ 151), that the rt. ja 'go,' 'attain,' 'strive' fixed itself in Greek also in the form $dj\bar{a} \zeta \eta$, and that in the special meaning of 'seek,' that $(\eta - \tau \hat{\epsilon} - \omega)$ is related to this root as $(\hat{\alpha}\mu\phi_{i}s -)\beta\eta - \tau \hat{\epsilon} - \omega$ (cp. $\hat{\alpha}\mu\phi_{i}\sigma$ βασίη, ἀμφίσ-βαινα and Lat. amb-igo, amb-ig-uu-s) to rt. Bu, and that Skt. ja-t and also jā-k 'seek,' are to be regarded as only expansions of this same root 1.

ζίζυφο-ν the tree, the fruit of which is called jujubae,

¹ The rt. dī 'shine' (cp. Fick i³. 108) connected by Brugman 'Morph.

Unters.' i. 8, according to the 'Pet. Dict.' never has the presumed meaning 'see.' Hence there is no certain similarity in meaning.

whatever the source from which it got its name, shows unmistakeably the reduplicated form and the representation by ζ of the j retained in Latin (Benf. i. 686).

ζυγ-ό-ν in its relation to the rt. ζυς ζεύγ-νυ-μι, Skt. jugά-m, Lat. jug-u-m, etc. has been explained under No. 144;

the form δυογό-ν in Plato we discussed on p. 612.

ζω-μό-s 'broth,' would naturally be grouped with ζέ-ω, if we were limited to Greek alone; though ζύ-μη φύραμα 'leaven' would be an objection in itself. If we compare, however, Skt. jū-s, jūsha-s, jūsha-m 'meat-soup,' Lat. jūs, Lith. júszè 'bad soup of leaven stirred up in water' (Nesselmann), ChSl. jucha (Schl. 'Ksl.' 133) and the Lett. jau-t, 'to stir meal into water,' quoted by Pott W. i. 1232, we arrive at an Indo-Germanic rt. ju with the meaning 'stir in,' 'mix.' Now 'to mingle' is a meaning actually established in the 'Pet. Dict.' for the simple rt. ju, elsewhere 'to bind,' and also for various compounds of this root (e.g. pra-ju) and ā-jáv-ana-m means 'spoon for stirring.' The ω is 627 probably to be explained from a form with 'added sound' *jau-ma-s. The v was suppressed, but it left behind the long vowel as in χω-μα 'heap' beside χέω (rt. χυ No. 203) and in other cases discussed by Brugman 'Stud.' iv. 159 and above pp. 575, 578. Thus the famous μέλας ζωμός may rest upon a primitive tradition. It seems to me awkward to separate ζωμός from ζύμη, as Fick does (i3. 731) and to connect it with Céw.

ζώ-νη, ζῶ-μα, ζω-σ-τήρ 'girdle,' 'girth,' ζώ-ννυ-μι 'gird' seemed to be formed, by a phonetic development quite analogous, from the rt. ju, which in Skt. means 'bind.' The Lith. jűsta 'girdle' seemed also to point to the rt. ju. But Pott W. i. 1243, and Fick i³. 732 have since pointed out the Zend words yâonh 'put on,' yâç-tô 'girded,' and the ChSl. po-jas-ŭ ζώνη, po-jas-α-ti ζωννύναι (Miklos. 'Lex.' 654). As the meaning here suits still better, this grouping deserves the preference. The root is therefore jas. ζούσθω ζωννύσθω (Hesych.) is for *ζο-έ-σθω for *ζοσ-έ-σθω, and belongs to a different form of the present.

On the other hand the attempt of Ahrens 'Ztschr.' iii. 165 and Legerlotz vii. 295 to refer the first element in ζώ-πυρο-ν

26] was jestingly formed after this analogy. On the other hand νἰιδεύ-ς is equivalent to νἰιδοῦς. Βανκιδεύ-ς is found 'C. I.' No. 106. Μαιαδεῦ in Hipponax 'Fr.' 10 as an appellation of Hermes may be a form intentionally made to resemble the names of beasts, for this well suits the tone of the fragment. which is very extravagant. Both forms meet also in the name of the old Attic tribe 'Aργαδης (nom. s. 'Αργαδεύ-s). the Eponymus of which was named 'Αργάδη-ς (Herod. v. 66). We might suppose a patronymic form here too, i. e. a nomen agentis *άργό-ς (cp. συνεργό-ς), whence the 'Aργαδείς would have got their name, as 'the sons of the labourers,' of the field labourers,' like the Παμβωτάδαι as 'the sons of the common herdsmen.' But it is certainly simpler to regard 'Apyadn's as a nomen agentis from έργάζομαι, in which, as in κομι-δ-ή, δ takes the place of j. And perhaps we ought to regard in the same way the Zeds Στοιχαδεύς (as well as Στοιχεύς) 648 of the Sicyonians (Lobeck 'Prolegg.' 351), so named 'διότι κατά φυλάς έαυτούς έταξαν καὶ ἡρίθμησαν.' στοιχά-ς is 'separated,' στοιχίζειν 'divide,' 'separate.'

 ϵ . The adverbs in $-\delta \alpha$, $-\delta o \nu$, $-\delta \eta \nu$, $-\delta \iota s$.

These adverbs, which are tolerably numerous, especially in the language of Homer, have been thoroughly discussed by Leo Meyer 'Ztschr.' vi. 287 ff. They are there traced back to the Skt. suffix -tva, which presents a certain similarity. especially in the employment of the instrumental -tva to form gerunds, e. g. ga-tvά (rt. gam), compared with βάδην. But the phonetic change from tv to δ cannot be satisfactorily established. Subsequently Leo Meyer connected all adverbial forms in δ with the Indian adjectives in -tja ('Or. u. Occ.' ii. 603, 'Vergl. Gr.' ii. 385), but there is nothing convincing in this, from the point of view either of form, for there is no reason whatever for the softening of τ into δ , or of meaning, for in Sanskrit this is that of necessity, which is foreign to our words. The words corresponding to these Indian adjectives are rather Greek adjectives like άξιο-ς, ὑπόψιο-ς, γνήσιο-ς, Latin ones like anxiu-s. And the identity of the adverbs in $-\delta i \eta \nu$ or $-\delta \eta \nu$ with the Latin adverbs in -tim, which he asserts, is the less admissible, in that we have actually in Greek itself adverbs in -τί like έγερ-τί, όνομασ-τί, δωρισ-τί, μονω-τί

(1) The opponents of the view maintained by Bopp and myself assume for the most part that the oldest stratum of the numerous verbs in -a(w, -1(w came from nominal stems in & by the coalescence of the final letter of the stem with a derivative j to form ζ, and hence that a form like *έλπιδ-jω became $\epsilon \lambda \pi i (\omega)$, just as * $\delta \delta - (\omega)$ certainly became $\delta (\omega)$. That then on the analogy of a number of verbs so formed, many more were formed by adding -a(w, -i(w to the most varied nominal stems, without any regard to the final letter. I do not at all deny in principle the possibility of such an origin. E. g. the verbs formed from n-stems, like ἀφραίνω, δειμαίνω, ποιμαίνω, have evidently been the pattern for χαλεπαίνω, λευκαίνω, μενεαίνω. But the stock of verbs in -αζω and -ιζω is by no means favourable to such an assumption. Verbs such as might be desired from this point of view, e.g. *λαμπάζω from λαμπάς, νομάζω from νομάς do not exist. Leo Meyer ('Vergl. Gr.' i. 47) endeavours in vain to hunt up a single derived verb in $-\alpha(\omega)$, in which the ζ arose in the way mentioned. Who can believe that the Homeric πεμπάζεσθαι 'to count on the five fingers' came from the abstract substantive $\dot{\eta} \pi \epsilon \mu \pi \dot{\alpha} s$ 'quintity' which occurs first in the Attic writers, or that μιγάζεσθαι έν φιλοτητι (θ 271) came from μιγάδ-ες 'mongrels.' The attempts are quite desperate to force τοξάζεσθαι out of τοξότης, iππάζεσθαι out of iππότης with a weakening of τ to δ . It remains the simple fact that out of forty-two verbs in -αζω, quoted by Leo Meyer, not a single one goes back to a nominal stem with &. Hence if we were absolutely resolved to hold to analogy, we should have to suppose that for the verbs in -a (w it started from lost patterns. Perhaps some individual worshippers of this favourite resource do not 629 shrink from even this hypothesis. - The case is somewhat different with the verbs in -ιζω. Here there is the st. παιδ beside παίζω, έριδ beside έρίζω, ληιδ beside ληίζω, the Homeric έλπιδ beside the post-Homeric έλπίζω. But of the sixtyseven verbs in -16 with a dental characteristic, besides those mentioned there are at most two or three, for which this origin has no difficulties. Leo Meyer, in order to obtain instances, has again to resort to the most perilous : tions, e.g. to refer the Homeric έταιρίσσαι 'to a

έταιρίσσασθαι 'to associate oneself,' to έταιρίς 'amicula,' a diminutive from έταίρα in Xenophon, ἀποικίσαι (μ 135) to άποικίς, the feminine of ἄποικος, which is used later on, by understanding πόλις, even for ἀποικία. Hence the assumed origin of the verbs in -ιζω is not in any way probable, except in a surprisingly small number of instances, while the enormous majority of these verbs go back to stems ending in vowels, in σ, or in nasals. It is also worth mentioning that Fick in Bezzenb. 'Beitr.' i. 324 ff. has made the exactly opposite attempt, to establish the verbs in -a(w, -i(w as the source of the nominal stems in & though with regard to this attempt, as to other similar ones of this acute inquirer, I reserve my judgement until he has completely published his view as to the origin of such verbal stems. The history of the Greek language is however decidedly not in favour of these attempts, for many of the verbs in -aζω and -ιζω, which he compares. are known to us only from a time much later than the nominal forms, which are said to have been derived from them.

(2) If then this widely prevalent view is attended by great difficulties, another might possibly be tried, which has not been put forward, so far as I know, by any one, but which is not far removed from the theories favoured, e. g. by Corssen ('Ital. Sprachkunde' p. 363 ff.), viz. to see in the (a suffix -δο, supposing that, e. g. to the stem δικα first a suffix -δο was appended (*δικα-δο), and that δικά-ζω came from δικα-δ-ίω. as from φαρμα-κο, φαρμακ-jω, φαρμάσσω. But where are such nouns to be found? Corssen has endeavoured to point out such, but those which he adduces are partly words where δ belongs to the root, like κέλαδ-ο-ς (see below p. 730), partly obscure words like ὅμα-δο-ς or names of places, perhaps not even of Greek origin like Τένεδος, "Αβυδος. *χαν-δό-ς, which as an adjective plays a prominent part with Corssen, is quite apocryphal. We have authority only for the Homeric χανδόν [φ 294 only] 'greedily,' also in Callimachus 'Frag.' 109, and the imitation of this verse in 'Anthol. Pal.' Append. 361, 4 630 where έκ χανδής κύλικος is the traditional reading, but one corrected long ago by the editors, cannot possibly prove the existence of this abnormal form (Lobeck 'Paralip.' 149). Besides, even in the little troop of these shadowy existences. brought together with so much pains, there is not a single one, which is accompanied by a verb in ζ . For the Homeric $\partial \pi \delta \zeta \in \mathcal{U}$ (rt. $\dot{\varepsilon}\pi \sigma \varepsilon n$) cannot be derived without violence from $\partial \pi \eta \delta \delta - s$ (Dor. $\partial \pi \bar{\alpha} \delta \delta$), for the denominative of this is rather $\partial \pi \eta \delta \varepsilon \omega$. And $\partial \pi \alpha \delta \delta - s$ belongs to the rt. $\pi \varepsilon \delta$ (cp. $\pi \eta \delta \delta \omega$) rather than rt. $\dot{\varepsilon}\pi$.

- (3) On the contrary everything becomes plain and clear, as soon as we regard the fas the successor of j. As from the Skt. svana 'sound' comes svaná-ja-ti 'he sounds,' so from δικα comes δικάξειν, from σκια σκιάζειν. Naturally the α also represents the o of the o-stems: λιθάζειν, just as e.g. in αἴθα-λο-s from αἰθο, and loses an ν in ὀνομάζειν (st. ὀνομαν). The relations to pure α-stems are especially plain in frequentatives, such as οἰνοποτάζειν, ῥυστάζειν. The verbs in -ιζω fall into two divisions, those in which the ι belongs to the stem, e.g. χαρί-ζω, ὑβρί-ζω, and those in which ι has originated from an old α through the intermediate stage of an -εζω, which has not disappeared entirely, without leaving any traces ('Greek Verb' p. 241 f.): νομίζω, αἰνίζω. Of course both methods of formation subsequently extend beyond their original sphere: e.g. θαμίζω (θαμα), ἀγων-ί-ζομαι.
- (4) The view that the j of these denominatives sometimes became &, and sometimes was dropped, is greatly strengthened by the extensive variation in the language between the two formations, e.g. ἀγαπάζω and ἀγαπάω, both Homeric, αἰνέω and αἰνίζω, ἀκάχησε beside ἀκαχίζω, -κτί-μενος and κτιζω, on which I have given further evidence in the 'Greek Verb' p. 235 ff. We have a remarkable form to confirm the close relationship between the verbs in $\epsilon \omega$ and those in $\zeta \omega$ in the Cyprian καλήζω cited by Herodian ii. 332 beside the Lesbian καλήω. The primitive form of both was *καλέρω ('Greek Verb' p. 248). One of the most far-reaching anomalies of the Greek verb, the sporadic σ, which appears in the perfect middle, in the passive stem with θ , and in numerous nominal stems (ἔσπασται, μνησθηναι, γνωστός, χρησμός) is best explained, as I think I have shown in 'Greek Verb' p. 522 ff., from the early wavering of the language between the two
 - (5) Now is the principle, that one and the same primitive

651 p. 264 ff.). Both apparently point to verbs in -aivo. -ivo. It will of course be understood, as I repeat in conclusion, that my view does not go so far as to maintain that in every single case the δ has passed through the development from j or i, which we assumed for the genesis of the type. — As regards the relation of the suffixes $-\delta o - \nu$, $-\delta \eta - \nu$, $-\delta \alpha$ to $-\delta \iota o$, etc., I should not like to maintain now with the same positiveness as before, that the latter forms are the source of the former, and hence that a j has been lost after every δ . Corssen, who discusses these formations on p. 366-unfortunately with very slight regard to the different stages in the history of the Greek languagemay possibly be right in holding, in accordance with the doctrine of the old grammarians (Lobeck 'Prolegg.' 351, 'Paralipp.' 156), that the adverbs in -δο-ν, -δα, etc. are the more primitive, and those in $-\delta\iota\alpha$, $-\delta\iota\eta\nu$, etc. are derived from them. It is possible that $\sigma \chi \epsilon - \delta i \eta - \nu$ may have come, not indeed from the adverb σχε-δόν itself, but perhaps from its stem σχε-So, which survives only in the adverbial accusative form, and κατ-ωμά-διο-ς from κατ-ωμα-δο like έλευθέρ-ιο-ς from έλευθερο. Thus we should understand why the i is as firmly attached in the one formation as it is foreign to the other. But there are certainly forms like the Homeric κρυπτά-διο-s, in the case of which the by-form without i is wanting, and I think I have established the possibility of the sequence of sounds -ja, -διο for other formations like διχθά-διο-s on p. 634. But my derivation of the & by no means falls, as Corssen thought, with this changed succession. If $\sigma \chi \epsilon - \delta \delta - \nu$ is to be regarded as the antecedent to $\sigma_{\chi} \epsilon - \delta_{io}$, then here δ alone is the representative of j, a phenomenon which has frequently met us. At the close of our investigation I shall endeavour to make this process still more clear in its phonetic aspect. We should have the series $*\sigma \chi \epsilon - jo$, $\sigma \chi \epsilon - \delta o$, $\sigma \chi \epsilon - \delta - \iota o$.

 ξ . δ for j in particular verbal forms.

Instead of the Homeric form of the present $\dot{\alpha}\mu\dot{\epsilon}\rho\delta$ - ω 'deprive,' Pindar has $\dot{\alpha}\mu\dot{\epsilon}(\rho-\omega)$. It is natural to derive both forms from a third underlying both, $\dot{\alpha}\mu\dot{\epsilon}\rho$ - \dot{j} - ω . The root is $\mu\epsilon\rho$ (No. 467) 'divide,' 'apportion,' to which $\dot{\alpha}\mu\dot{\epsilon}\rho\delta$ - ω is related as $\dot{\alpha}\tau\dot{\epsilon}\zeta\omega$, $\dot{\alpha}\tau\dot{\epsilon}\omega$ to the rt. $\tau\iota$ 'honour.' We must give expertem facere as the fundamental meaning, and must certainly assign another

root, i. e. $\mu\alpha\rho$ 'shine' (cp. p. 567) for the second meaning of $\dot{\alpha}\mu\dot{\epsilon}\rho\delta\epsilon\iota\nu$ 'blind;' so that the verb, when it has this meaning, is to be compared with $\dot{\alpha}\mu\alpha\nu\rho\sigma\hat{\nu}\nu$. Lobeck's attempt ('Rhemat.' 74) to connect the two meanings is certainly unsuccessful.

Before the endings -arai and -aro of the perfect and pluperfect middle we sometimes find the sound &. The particular forms have been quoted by me in the 'Gk. Verb' p. 671. In 652 έρράδαται (υ 354, έρράδατο Μ 431), as in έρηρέδατ' (pres. έρείδω) the δ belongs to the root. Under No. 253 we saw that the root was ἀρδ, by metathesis ράδ. The forms which remain are άγωνίδαται (Herod.ix. 26), κεχωρίδαται (i. 140), ἐσκευάδαται (iv. 58), παρεσκευάδατο (iii. 150), διακεκρίδαται, which is not found before Dio Cassius (lii. 5), and the Homeric forms άκηχέδατ' (P 637), ἐληλέδατ' (η 86). The first four forms correspond to present stems in ζ just as ὄδωδα does to the present όζω, or έδος by the side of εζετο. If, as we assume, ζ may be divided into the elements δ and z (odzo, agonidzomai), we can understand how forms of the latter kind follow the lead of those of the former kind, i.e. how the second element, that which represents a j, came to be regarded universally as a sign of the present, and the verbal stem as ending with a δ. The older fashion, which Dorism retained, was discussed on p. 632. It is in these forms and some few noun-forms, which are to be discussed immediately, that the reference of derived verbs with -ιζω, -αζω in the present, as well as primitive verbs (δζω. $\sigma_{\chi}(\zeta_{\omega})$, in practical Greek grammar, to a verbal stem in δ , finds its justification. The isolated Homeric ἀκηχέδατ', on the other hand, answers to the equally isolated ἀκαχείατο (M 179, I. Bekker ἀκαχήατο) and may serve as a finger-post to point out to us the relation of the verbs in $-\zeta \omega$ to those in $-\epsilon \omega$, which we touched upon above (p. 630). The ι of -ιζω has come from ε, like that of $i\zeta\omega$ (rt. $\dot{\epsilon}\delta$), $\chi\theta\dot{\iota}\zeta\delta s$ ($\chi\theta\dot{\epsilon}s$). We may deduce a form $\dot{\alpha}_{\kappa\alpha\chi\epsilon}-\delta_{-j\omega}$ with the same justice as $\dot{\epsilon}\delta_{-j\omega}$. Now in $\dot{\alpha}_{\kappa\eta\chi}\dot{\epsilon}\delta_{\alpha\tau}$ by the side of ἀκαχίζω we actually find, I believe, this hypothetical ε, and similarly in ἀκηχεδ-όν-ες λύπαι (Hesych.), but with ἀκαχείατο, if the traditional authority in its favour is cor-

¹ ἀπεσπάδατο, quoted by Lobeck ad 'Ajac.' 403, is not certain. The MS. of Hesych. has ἀπεσπάδατο ἀπέστησεν. M. Schmidt marks the gloss as suspicious, if only because the alphabetical sequence is not observed.

words seems to occur in ἀκεῖσθαι 'heal' (Delph. ἐφακείσθαι 'C. I. G.' 1688 l. 37), ηκα 'gently,' 'softly,' ἀκέων 'silent,' ἄκασκα [gently, Bergk on Pind. 'Pyth.' iv. 276] akaokaios [gentle, ' Aesch. 'Ag.' 741] (Fick 'Ztschr.' xx. 173). αίκ-αλο-ς, from which αἰκάλλω is derived, would be for ἀκ-ιαλο-ς, as κραιπάλη is conjecturally for κραπ-ιαλη (No. 41). As -aλo is a diminutival suffix (Schwabe p. 78), κραιπάλη might be the dimi-680 nutive of a lost κραπια (cp. μανία), and άκ-ιαλο-ς the adjectival diminutive from ak-10-5 (cp. ay-10-5). The Lat. crapula is evidently a borrowed word. A similar suffix apparently occurs in $\eta \pi i \alpha \lambda o$ -s 'fever.' — After a π we notice the same process in έξαίφνης with aspiration (p. 502) for έξαπίνης, αἰφνίδιος, etc. (cp. ἄφνω, ἀφνίδιος Hesych.), in κραιπνό-ς for κραπινο-s (No. 41), in δε iπνο-ν for δεπ-ινο-ν, δαπ-ινο-ν (Lat. dapinare No. 261). — σκοίψ · ψώρα (Hesych.) has already been compared by Lobeck 'Paralipp.' 113 with scab-ie-s. It might easily be for σκοφ-ι-s. — In the case of ροίβ-δο-s, ροίζο-s we learnt on p. 650 to see still more clearly that an t has made its way from the termination into the stem-syllable. — Finally it seems that even the dental consonants cannot be entirely excluded. For with regard to the diphthong in forms like pépeis for $\phi \in \rho - \epsilon - \sigma \iota = Skt. bhár - a - si$, and $\phi \in \rho \in \iota$ for $\phi \in \rho - \epsilon - \tau \iota = Skt. bhár - bhár - bhár - a - si$ a-ti, the theory, according to which φερ-ε-σι first became φερ- $\epsilon \iota - \sigma \iota$ and $\phi \epsilon \rho - \epsilon - \tau \iota$ $\phi \epsilon \rho - \epsilon \iota - \tau \iota$, deserves the preference over others if only because ει belongs to all the Greek dialects, including the Doric, while the change from τι into σι, which has been assumed by some in order to get thereby to a simple t (6-71, ϵ - $\sigma\iota$, ϵ - ι) is entirely unknown to the Dorians. Cp. 'Greek Verb' p. 140 ff. No one can fail to see too that κρείσσων has come from κρετ-jων, from which the later Ionians and a portion of the Dorians (Ahrens 'Dor.' 188) formed κρέσσων 1. The diphthong appears just as plainly in connexion with o in χραισμ-έ-ω for χρασιμ-ε-ω (χρήσιμο-s). Whether πλαίσ-ιο-ν

At first sight the forms κρέσσων, μέζων might seem older than the Attic forms. But probably they owe their origin only to that disinclination to the connexion of ει with double consonants, in consequence of which ἀπόδειξιε in New Ionic became ἀπόδεξιε. The inscription from Chios (Cauer 133) furnishes in 1. 16 the hitherto unknown ἀποδέκτνντες.

'square' for $\pi\lambda\alpha\theta$ -10- ν belongs to the st. $\pi\lambda\alpha\theta$, $\pi\lambda\alpha\theta$ - $\alpha\nu$ 0- ν ' platter' (No. 367 b) may be left undecided. In some of these cases recourse has been had by some to the device of regarding $\alpha \iota$ as merely a 'strengthening' of α . But for this process, which would be quite inconceivable in the case of a long α , the only support is to be found in the reduplicating syllables of $\delta\alpha\iota$ - $\delta\alpha\lambda\lambda\omega$, $\pi\alpha\iota$ - $\pi\alpha\lambda\lambda\omega$, etc. which are themselves puzzling enough.

If this be, generally stated, the extent of this phonetic phenomenon, we have now to consider the way in which we should regard it. The question is whether it should be viewed as epenthesis or metathesis. Epenthesis is a phonetic process extremely widely prevalent in Zend, as is shown by Bopp 'Vgl. Gr.' i2. 70, Justi p. 359. The i or j of the following syllable makes the a of the preceding into ai: Skt. bháv-a-ti 'he is,' Zd. bhav-ai-ti (cp. φύ-ει[τι]), Skt. st. madhja (medius), Zend maidhya. In the same way u and v change the a of the preceding syllable into au, Skt. sar-va 681 'whole,' Zd. haur-va. With the Zend epenthesis the German Umlaut agrees, except that in the latter the i-element of the termination is not added on to the vowel of the preceding syllable, but assimilates it to itself: OHG. vatar pl. vetir (Grimm 'Gr.' i3. 555, Schleicher 'Die deutsche Sprache' p. 144, Rumpelt § 45). A 'much older epenthesis' in the Teutonic sphere, e.g. in Goth. hail-s = kalja-s is treated of by Scherer 'Z. Gesch. d. deutschen Sprache 1' p. 472. In Irish epenthesis is very extensive, and increases in the course of time; e. g. OIr. laig-iu 'minor'= έ-λάσσων, aile=aliu-s Cypr. aî λ o-s, berid for bere-ti= ϕ é ρ e ι ; it is sufficient here to refer to Zeuss² p. 4. Moore's 'Windisch' § 16 ff. In modern Greek, as Deffner 'Stud.' iv. 270 shows (but only, as he tells me in a letter, before the palatal sounds j, k, ch), new diphthongs are developed by an 'anticipated' ι : $m\acute{a}i\chi\iota = \mu\acute{a}\chi\eta$, δίχι = ὅχι, οὐχί. This phonetic change may well be called 'anticipatory sound' (Vorklang), inasmuch as the sound of the following syllable is naturally prepared for in the preceding syllable, by the speaker who has the whole of the word in his mind. According to the more aws the consonants are always cooperating fact hesis

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τέτορες 488.

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v pronunciation 412; v from orig. a 714 ff.; v from orig. u 411, 571; v from j 612; v from F 563 ff.; v from Ft, Fo 176, 245; v interchanged with 716 ff. vaiva 382. δάκινθος 279, 574. δάλη 564, 576. δαλό€ν 395. δάλομαι 564. υίαλος 395, 565. Τάνθεια 574. baria 565. Υβλα 532. ὑβός 529. υβρίζω 630. ΰβρις 200, 540. υγγεμος 614. ύγεία 187. ύγιάζω, ύγιαίνω, vyiaia 187. ύγιηρός 187 ύγιης 187, 678, 739 ύγραίνω 187. ύγρός 28, 187, 350. ύγρότης 187. ύδαρής, ύδαρός 248. Ύδατοσύδνη 654. ΰδερος 248. ύδέω 248. ύδης 248. ύδνέω 249. ύδνη 654. ύδνης 242, 245, 248. ύδνης (watery) 249. ű80s 71, 249, 403. ύδρα 248. ύδραίνω, ύδρεύω 248. ύδρία 248. ΰδρος 248. ΰδρωψ 248. űðw 248. ύδωρ 71, 72, 248, ὑπήνη 305, 306.

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mann, who had hit upon the same idea as Ahrens, on p. 46 comes to the conclusion that a change of this kind cannot be established.

11. J as a transposed into the preceding syllable.

We return finally to a phonetic process, which is universally recognized, and with which the only question can be as to its extent and its explanation. Good collections may be found in Christ p. 44, Leo Meyer i. 270 f., Pott ii². 741. For all the Greek dialects, with the exception of the Asiatic Aeolic, it is the rule that j — or ι , for any sharp distinction is here impossible, — after ν and ρ is transferred to the preceding syllable, in the form of ι: μελαν-ja, μέλαινα, κερ-jω, κείρω, Aeol. κέρρω. After other consonants this phonetic change is more rare, but by no means unknown. In ὀφείλω indeed we can explain the diphthong only by compensatory lengthening. because in the old alphabet it was denoted by E, as is proved by Brugman 'Stud.' iv. 120. The desire to distinguish ὀφέλλειν from ὀφείλειν has perhaps contributed to this irregularity. But we saw on p. 357 that allos was the Cyprian form for άλλος, i. e. άλ-jo-s (Lat. al-iu-s)1. In the case of explosives, the phenomenon appears in some clear instances - and Hugo Weber ought not to have denied it so positively in his 'Etym. Unters.' i. 66 — as in πείκ-ω (σ 316) by the side of $\pi \epsilon \kappa - \omega$ and $\pi \epsilon \kappa - \tau - \omega$, where perhaps the wish to distinguish the

¹ Probably the notice of the 'E.M.' belongs here also, αἶλα ἀντὶ τοῦ, καλά Κύπριοι (p. 34, 10). We must write for καλά ἄλλα or ἀλλά. Or can the gloss have lost a κ, and fallen wrongly under a ? καιλά would be the Cyprian form which we should expect for καλά=*καλία.

² Möller, in his instructive and interesting essay 'Epenthese vor k-Lauten im Germanischen' 'Ztschr.' xxiv. 427 ff., has suggested for many phenomena belonging here the entirely new point of view, that a guttural, without the assistance of a following i, can produce by its own force an i-sound before itself. Hence he denies for many cases here discussed the previous existence of an i in the following syllable. As πλέκω, τέκος, έγώ, ἄγω, etc. show, we can at most speak of a phonetic tendency, never of a phonetic law. But certainly many an i hitherto inexplicable, e.g. that of ἥρεικα and ὁχιής finds thus an explanation. This subject requires further careful investigation.

word from πέσσω 'cook,' prevented the usual treatment of 679 the kj, and also in the stem yuvaix which in 'Ztschr.' iv. 216 I have traced back to $\gamma \nu \nu \alpha - \kappa - \iota = \text{Indo-G. } ganak \bar{\iota}$. The suffix k, originally hypocoristic (cp. sen-e-c-s), to which the feminine termination \bar{i} is appended, finds a confirmation also in the Persian žan-a-k 'muliercula' from the same stem (No. 128), as is proved by Schwabe 'De deminut.' p. 45. The apportionment of the two stems to the different cases was not so firmly established as it might seem from the prevalent usage. The comic writer Pherecrates (fr. 95) used the acc. yvvń-v, and ai yvvaí is also quoted from a comedian (Meineke 'Com.' ed. min. i. p. 106). — Further, after γ in the comp. $\mu\epsilon i - \zeta \omega \nu = \mu \epsilon \gamma - j \omega \nu$, Ion. $\mu \dot{\epsilon} \zeta \omega \nu$, in the st. aly for ay-ι (No. 120) nom. aiξ 'goat,' in aiy-λη 'brightness' (No. 41), inasmuch as this may with probability be referred to $\dot{\alpha}_{\gamma-i\lambda\eta}$, as the Skt. ag-ni-s = Lat. ig-ni-s suggests. To be sure a form like ἀγ-ιλη has analogies only in masculines like στρόβ-ιλο-ς, τρόχ-ιλο-ς, to which we may add αίκλοι (Hesych. αί γωνίαι τοῦ βέλους), discussed by Legerlotz 'Ztschr.' viii. 397, if it comes from ak-iloi (cp. aculeu-s) and is to be referred to the rt. ακ (No. 2). In the same way αίχ-μή 'spear-point,' with a χ which, as in έγχ-ος, has come from κ (p. 504), may be explained as for άκ-ιμη. We must probably take the word, which is common in Homer, and which can hardly be connected with ἀΐσσω, in the Homeric dialect always trisyllabic, as an adjective (used as a substantive), after the analogy of άλκ-ιμο-ς, τρόφ-ιμο-ς, πόρ-ιμο-ς. The stem-word would be ak-i-s 'point,' and aki-un would properly be 'the pointed.' So also Pott W. i. 516. Joh. Schmidt 'Vocal.' i. 76 adds Lith. eszma-s 'javelin.' In two more words beginning with the same letters, we may conjecture that the origin of the diphthong was the same. The first is the Laconian αίκ-λο-ν or αίκ-νο-ν 'supper,' if any one chooses to be bold enough to connect it with the Skt. ac 'to eat,' ac-a-na-m 'eating,' 'food.' We may recall also the Homeric ακ-ολο-ς 'bit' (ρ 222) mentioned on p. 1141. — The case is much the same with αἰκάλλειν 'blandiri' and αἴκαλο-ς κόλαξ (Hesych.). The root of these

¹ Baunack 'Stud.' x. 78 collects a long list of kindred glosses, among them συν-αικ-λία (Aleman), ἀν-αίκ-λ-εια ἄδειπνα, εἶκ-λο-ν δεῦπνον, ἵκ-να τροφεῖα.

(Sievers 'Lautphysiologie' p. 143). In juxtaposition with i these become mouillés. For Greek however these processes escape our more precise knowledge.

According to these analogies I believe that in Greek also we must regard an t of this kind as in all cases the anticipation of an ι or j which was from the first justified in the subsequent syllable. It is true that there are only a few instances in which the i, which would thus be expected, is actually found to exist in both syllables, viz. only four, the not very common $\epsilon i \nu i$ from $\epsilon \nu i$, which however is well authenticated five times in Homer in the formulas είνὶ θρόνω, είνὶ θύρησι, the two comparatives κρείσσων, μείζων, which warrant us in inferring * $\kappa \rho \epsilon \iota \tau - j o \nu$, * $\mu \epsilon \iota \gamma j o \nu$, and finally $\pi \lambda \alpha i \sigma \iota o \nu$, though this is perhaps not very certain. We might possibly add αίρέω, discussed on p. 557, if it points back to Fap-jω. In all the remaining instances of this phenomenon, i.e. in the numerous feminines in -αινα, -εινα, -αιρα, in the presents in -αινω, -εινω, -αιρω, -ειρω, and in comparatives like άμείνων, $\chi \epsilon i \rho \omega \nu$ the i has disappeared from the subsequent syllable. Perhaps this disappearance is to be explained psychologically. The speaker feels instinctively that this sound ought not to be sounded more than once in the single form, and so, after it has been anticipated, he drops it in the second syllable. Siegismund in his investigation of metathesis in 682 'Stud.' v. 126 ff. starts from similar considerations. well known from Teutonic languages that the so-called 'Umlaut' did not become very common, until the special cause of the phonetic change, the i, had disappeared from the subsequent syllable: OHG. tragi, MHG. traege, OHG. mohti, MHG. moehte.

We may refer here also to the parallel epenthesis of u. The disfavour, which is now shown to all sporadic phonetic affections, has induced some scholars to deny this altogether. But three forms hardly admit of another explanation. The Homeric $\pi o \nu \lambda \dot{\nu} - s$ ($\pi o \nu \lambda \dot{\nu} - \nu$, $\pi o \nu \lambda \dot{\nu}$) is quite parallel to $\epsilon i \nu i$. Anticipation with a loss of the u in the subsequent syllable is shown in $\epsilon \lambda \alpha \dot{\nu} \nu \omega$, i. e. * $\epsilon \lambda \alpha - \nu \nu - \omega$ ('Greek Verb' p. 171), in the words discussed on p. 567 f. $\mu \alpha \bar{\nu} \rho - s$ ($\alpha \mu \nu \nu \rho - s$), $\pi \alpha \bar{\nu} \rho - s$ (?), $\nu \epsilon \bar{\nu} \rho - \nu$, and in $\gamma \epsilon \dot{\nu} \nu \omega \nu$, i. e. * $\gamma \epsilon \nu \nu - \omega \nu$ · $\gamma \sigma \nu \dot{\alpha} \tau \omega \nu$ Hesych.

mentioned under No. 137. On the other hand forms like $\gamma o \hat{\nu} \nu a$, $\delta o \nu \rho i$, $o \hat{\nu} \lambda o - s$ ('whole' = Skt. $s \hat{a} r \nu a - s$) may just as well have arisen by compensatory lengthening from $\gamma o \nu f a$ ($\gamma \delta \nu \nu a$), $\delta o \rho f \iota$, $\delta \lambda f o - s$, and this view we preferred on p. 569. If we possessed inscriptions in the alphabet in use before Euclides, which contained these forms, the question would be settled at once, according as O Y or O was written in them.

That the ει of φθείρω, κτείνω, etc. did not originate, as Meunier 'Révue Critique' 1869 p. 246 conjectured, in the way of compensatory lengthening, but is to be regarded as a genuine ει, is proved not only by the parallel αι of καθαίρω, ὀνομαίνω, which absolutely excludes such an explanation, but also by the fact that the Dorians also had the diphthong in this place: φθείρω or φθαίρω (cp. a grammarian in Ahrens 'Dor.' 186), ΣΠΕΙΡΕΝ Cretan (C. I. G. No. 2556, l. 18: 'Greek Verb' p. 213). If the length of the stem-syllable was due to compensatory lengthening, it would necessarily have been *φθήρω, *σπήρεν. — For ὑπείρ = Skt. upári cp. p. 290 ¹.

The attempt to explain the diphthongs of τείνω, φθείρω, etc. by compensatory lengthening is repeated by Frankfurter in his doctoral dissertation 'On the Epenthesis of j(i) F(v) in Greek 'Göttingen 1879. But there are absolutely no Old Attic forms without a, to justify the opinion that the diphthongs are in a large part of the cases hitherto explained by epenthesis, e.g. in the present forms in -εινω and -ειρω, and in the feminines in -εινα, only 'late Attic.' EMEPAE quoted on p. 40 does not belong here at all, for in 'C. I. A.' i. 322 a, 64 it is the acc. plur. of the substantive σπέιρα. Even the aorist of the same form, if it was authenticated by inscriptions, would of course prove absolutely nothing for the present. On the other hand the Cretan EHEIPEN cannot possibly be set aside offhand, as is done on p. 40, for EI as the lengthening of e is, as every one knows, quite foreign to strict Doric. The Lesbian σπέρρω would necessarily have been *σπήρω in Cretan, if the Cretan form had really originated from the Lesbian. But why could not σπέρρω have come from σπερ-jw in one dialect, and σπείρω in another by epenthesis? The Cyprian allos, which cannot be argued away, beside the ordinary Greek άλλος, proves that the Greek dialects did not all proceed in the same way in this case. Frankfurter p. 34 remarks that in l. 26 of the inscription from Idalium Ιναλαλισμένα, said to be equivalent to ἐναλλαλισμένα (from *ἐναλληλίζω) damages the authority for this allos: but he forgets that this form has more recently been explained

Kamschatka and New Guinea.

WITH NOTICES OF FORMOSA, LIU-KIU, AND THE ISLANDS OF THE MALAY ARCHIPELAGO.

By F. H. H. GUILLEMARD, F.L.S.

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the spiritus asper and lenis, is a course that is impossible in the face of the influence which, in spite of isolated exceptions and aberrations on inscriptions, the spiritus asper exercises on the whole with perfect consistency on preceding tenues (ἀφ' οὖ, ἐφίππιος). Moreover in many districts of Greece, especially in Tarentum and Heraclea (Kirchhoff 'Stud. über d. gr. Alphabet 3' p. 146), the sign + was for a considerable time used for the spiritus asper. And how are we to believe that the grammarians, when they matured the doctrine of the πνεύματα and introduced new signs for them into the cursive alphabet, arrived at such a doctrine, if they had not the elements and data for it in the Greek of their time? But for all this the history of the representation of the aspirate, especially the early loss of the old letter for it, which was borrowed from the Phoenicians, and the grammatical distinction of the πνεύματα, as something falling under the head of προσωδία, has an important bearing on the history of the sound itself. The Asiatic Aeolians, who were peculiarly ψιλωτικοί, and the Ionians, who allowed the aspirates no influence upon the preceding tenuis after an elision (ἀπ' οῦ, κάτοδος), evidently took the lead in the weakening of the aspirate. Indeed even in Homer we find forms like hoos by the side of hous, ouros by the side of δλος. The expulsion of the spiritus asper began in the earliest period of Greek and certainly became more and more general, until it has in modern Greek become universal. The language cannot have been far from the latter state at the time when the grammarians thought it necessary to have lists of words and introduced 684 their artificial rules 1 to teach the correct use of the spiritus, a movement in which Herodian notoriously took the lead. The destinies of the spiritus asper in Greek therefore, in spite of the completely different origin of the two elements, do not differ essentially from those of the h in Latin and the Romance languages. We find here, however, a phenomenon, which is instructive for Greek as well. Not only does the

¹ This system of the old grammarians is discussed from the standpoint of Lobeck's school, by Aug. Lentz 'Pneumatologiae elementa,' 'Philologus' erster Supplementband p. 641-776.

aspirate become volatile and disappear pretty early from its original place: eredes ('C. I. L.' No. 1034) cp. above No. 189. but it makes its way to positions to which it has no right at all. Hence Catullus's ridicule of hinsidiae and the like [Carm. lxxxiv.: cp. Quinct. 'Inst.' i. 5]; and such mistakes led gradually to such erroneous forms as the ill attested humerus for umerus (No. 487), humor for umor (No. 158). Op. Fleckeisen '50 Artikel' p. 31. The same thing has happened in the Romance languages, where the rejection of tha h, in actual speech at least, has become the rule, while the prefixing of an irrational h, whether it be in actual speech, or in a way of writing that points to an older pronunciation, is by no means rare (Diez 'Grammatik' i. 370. 452) | Span. hedrar = iterare, Fr. haut = altus. Attention may be directed in this respect to the numeral eight, which shows, not only in the Fr. huit, to which we shall return at p. 688, but also in the modern Persian hest, and in the Haraelean dare (Ahrens 'Dor.' 36) an aspirate of late introduetion. In Irish too we meet an h before initial vowels that has no right to be there, and was only subjected to rules at a later time (Windisch 'Irish Grammar' E. T. § 107). We meet with the same phenomenon in vulgar English and in some parts of Germany, where aspiration has become confund. It seems then to be a law of language that when application begins to lose ground it makes its way occasionally to the wrong place. And this is important for the treatment of the Greek spiritus. If the asper began early to retire from the language, and if this fact is completely established, we shall not need in each single instance to seek for some of mological ground for the change, but must simply regard the phenomenon on the whole as a confusion. From such injuries as these no language is quite secure. We must accordingly recognize them as such, and distinguish them from regular phonetic formation.

We will now consider the cases in which

(1) the spiritus lenis takes the place of the asper.

Comparisons of undoubted correctness establish the origin of the lone from the asper in a not inconsiderable number of atoms. We find now and then individual forms retaining the asper side by side with the lenis. Let us take first those cases in which the spiritus asper represents an original s, which here and there actually occurs in by-forms by the side of the asper and the lenis, so as to bring all the three successive steps in the history of the sound clearly before our eyes.

To this class belong the copulative ά- (No. 598), by the side of which the form α- (α-θρόο-ς, α-πας) survives, along with the related o-, both going back to the Skt. sa, sam, 'with;' ἀλέα 'the sun's warmth' (Att. άλέα), which has been discussed at p. 552 in its relation to $\epsilon i \lambda \eta$, $\epsilon \lambda - \dot{\alpha} \nu \eta$, and the rt. var; $\dot{\alpha}\mu\dot{\delta}s$, $\dot{\alpha}\mu\dot{\delta}\theta\epsilon\nu$ by the side of the better preserved άμός, άμόθεν (No. 600).—Bugge (Bezzenb. Beitr.' iii. 120) shows that ἄτερ and ἀτάρ also get their spiritus lenis from an original spiritus asper, $\check{a}\tau\epsilon\rho$ corresponding to the Germ. sonder ('separate'), ἀτάρ to sondern ('but'), so too the Skt. sanitús or sanitúr 'beyond,' 'without,' sanutár 'away' (cp. ἄνευ 'Pet. Dict.'). The nasal is wanting in the Gk. form as in ἐκατόν etc. It is remarkable that we thus get two synonymous sts. sa, one of which (Gk. à, à, ò) means 'with' and the other (Gk. a) 'without.'—a-ω 'satiate' by the side of a-δην, and ἄδδην (cp. p. 649) from the root preserved in the Lat. sa-tur, sa-tis, OIr. saith ('satietas'), and the Goth. sath-s 'full,' to which Pott ii2. 853 adds also the ChSl. sy-tu, Lith. só-tu-s 'full' — ἔδαφος 'bottom,' 'soil' cannot be separated from ovoas, which likewise has the lenis, but was assigned at No. 281 to the rt. $\delta = \text{Skt. } \text{sad 'go'} (\delta \delta - \delta - s)$, Whether the lenis is due to the effect of the following aspirate, as seems to be the case in $\xi \delta - \epsilon - \theta \lambda_0 - \nu$ 'seat' by the side of $\xi \delta_0$ (No. 280), is rendered doubtful by ovoas and by odos, ovoos threshold.' No satisfactory explanation of the ou in these words has yet been given. There are no clear traces of a rt. vad (Lat. vādere), suggested by Hugo Weber ('Ztschr. f. Gymn.' 1864 p. 518, cp. above p. 473). — That $\epsilon i \rho \omega = sero$ comes from the rt. sar, the sibilant of which is preserved in σειρά, and appears in the form of the spiritus asper in oppos, has been established at No. 518. — 'Epivú-s in its relation to the Skt. Saranjū-s was discussed at No. 495, $\epsilon \tau \epsilon \delta - s = satj \alpha - s$ along with ἔτυμο-ς at No. 208. The loss of the sibilant clearly took place long before Homer's time, as is shown e.g. by his ἄ-λοχο-s, which no one doubts was derived from å, sa and the rt. λεχ (No. 173). The reduplicated ἐτ-ήτυμο-s finds in εἴρεροs (at No. 518) a complete analogy. — ἰκ-μά-s has been referred at No. 24 b to a rt. sik, to which, as is shown by Clemm 'Studien' ii. 45, ἰχώρ 'juice, the blood of gods,' also belongs. — Whether ἀπό-s 'juice' belongs to the words σαφήs, σοφό-s, and the Lat. sap-or discussed on p. 512 is uncertain. At p. 551 on No. 662 we discussed the Ionic οὖλο-s by the side of ὅλο-s = Skt. sárva-s, Old-Lat. sollu-s, and on No. 506 ὀρό-s by the side of the Lat. serum. — In the reduplicated forms too where the stem begins with σ, the spiritus asper appears only in a few isolated traces (ἀφέσταλκα Giese 'Aeol. D.' 405, 686 Keil 'Schedae epigraphicae' 10); elsewhere, e. g. in ἔσταλκα,

ἔσπαρται, the lenis appears.

We may here consider the cases in which the original sv has left behind it only the lenis in the place of the asper which we should expect to find by the side of F. So the Hom. ἄσμενος, ήδος by the side of ήδομαι, ήδονή, άνδάνω No. 252, ἔθος, ἢθος, rt. ἐθ for σεεθ No. 305, where we may discern (Christ 135) in the aspirate in the second syllable the reason for the abandonment of the asper in the first, just as we thought we could in $\eta\theta$ - ω 'sift' = $\sigma\eta\theta\omega$ (No. 571), iδ-ί-ω No. 283 by the side of iδρός, iδρώ-s from the rt. svid, ίδιο-ς No. 601 by the side of the st. έ, σ ε. — έτης 'relation,' 'townsman,' had the digamma in Homer (Knös 221), and is written with the digamma in the Elic inscription 'C. I.' No. 11. Since the word, as is conjectured by Benfey ii. 202, belongs to the pronominal st. ε (No. 601), the latter bears to ετη-ς the same relation that ιστωρ does to the rt. Fib. On this word we can now refer to Ludwig Lange's thorough investigation 'De ephetarum Atheniensium nomine' Leipz. 1874, especially p. 11 ff. In meaning έταρος, έταίρος correspond, but the fact that no trace of a F is to be found in these words makes against their relationship. Bezzenberger 'Beitr.' iv. 328 is for referring "\tapos, to which \(\epsilon\tai\tai\rho\rho\rsi\) bears the same relation as λοίσθιος to λοίσθος, to the rt. sak (sequi, επομαι), its k being for no visible reason here represented in the same dialect sometimes by π , sometimes by τ . I cannot believe this. If the Attic address $\tilde{\omega} \tau \hat{\alpha} \nu$ (also $\tilde{\omega} \tau \hat{\alpha} \nu$) has anything to

do with ἔτης, Lange's theory that *ἐτᾶν is an expansion of the st. Γετα like μεγιστάν from μέγιστος is the most probable one.

A simple F passes, as Kuhn shows 'Ztschr.' ii. 132 (cp. Christ p. 185 f.), in the majority of the cases belonging here, into the spiritus lenis. There is however a certain amount of probability, that in all cases the asper formed a stage in the transition. It is not surprising therefore to find that this stage has often been preserved, and indeed that sometimes this is the only form found, as in the case of $\tilde{\epsilon}\sigma\pi\epsilon\rho\sigma$ = vesper (No. 566), $\tilde{\epsilon}\kappa$ - $\tilde{\epsilon}\nu$ (No. 19), $\tilde{\epsilon}\sigma\tau(\alpha)$ (No. 610), while sometimes usage varies between the two breathings. So we find by the side of $\tilde{\epsilon}\nu$ - $\nu\nu\mu$, $\epsilon\tilde{\iota}\mu\alpha$ (No. 565)—perhaps on account of the θ in the following syllable— $\tilde{\epsilon}\sigma\theta\sigma$, $\tilde{\epsilon}\sigma$ - $\theta\hat{\eta}$ -(τ)- σ from the rt. τ - σ , and by the side of $\tilde{\iota}\delta\epsilon\hat{\iota}\nu$ and all the related words (No. 282), the remarkable isolated $\tilde{\iota}\sigma\tau\omega\rho$, as to the aspirate of which the ancients were very doubtful (Lentz σ , cit, σ , 700), and the originally Ionic $\tilde{\iota}\sigma\tau\sigma\rho\hat{\iota}\alpha$, $\tilde{\iota}\sigma\tau\sigma\rho\hat{\epsilon}\hat{\iota}\nu$.

We have seen on the other hand that the regular representatives of a j are & and the spiritus asper. But in dialectic forms we meet with the lenis too in the same position. This is the case with άγεα τεμένη, άγέεσσι τεμένεσι (Hesych. ed. 687 M. Schmidt), words which undoubtedly belong to the rt. $\alpha_{\Gamma} =$ Indo-Germ. jag (No. 118), and also with the Aeol. "uµes by the side of the ordinary Greek ὑμεῖς (No. 607), and in ὅττι in Sappho (Ahr. 26) from the pronominal st. $\delta = Skt$. ja(No. 606), with which may be classed the old particle ὄφρα, whose correlative τόφρα leaves no doubt as to the origin of the ¿ from ¿. Here, as in one or two cases discussed above, the aspirate seems to have been prejudicial to the asper. As regards the second component of the particle, perhaps Thiersch 'Gr.' § 316, 14 was near the right explanation of it in taking $\delta\phi$ -pa to be compounded with $\dot{\rho}\alpha = \alpha \dot{\rho}\alpha$. Anyhow $\gamma \dot{\alpha}\rho$ and $\tau \acute{a}\rho$, which was regarded by the old grammarians as a single word, are without question compounded with άρα. Only we have no right to regard the ϕ as a 'hardening' of the spiritus asper. Perhaps ὄφ-ρα is for ὀφι-ρα like the Homeric τί-πτε for τί ποτε. ὁφι would be an old form with the suffix -φι, like $\theta \in \delta - \phi_i \nu$, $\nu \delta \sigma - \phi_i$, $\hat{i} - \phi_i$, and the Lat. i - bi, $u - bi^{-1}$.

¹ This explanation is opposed by Lange 'Ztschr. f. ö. G.' 1863 p. vol. II.

We shall return at p. 709 to $\delta\psi o - \nu$ in its relation to $\xi\psi \omega$. We now come to the opposite case—that of

(2) the spiritus asper where we should expect the lenis.

The old grammarians describe the Attics as δασυντικοί. The frequent occurrence of the asper in this dialect in cases where all others have a lenis, has been discussed with much insight by Giese 'Aeol. D.' 304 ff. and elucidated especially by Keil in his 'Schedae epigraphicae' p. 6 ff. by an abundance of matter, drawn for the most part from inscriptions. Among the examples given are some where the spiritus asper has the support of old tradition, especially, taken alphabetically, $\epsilon \lambda \pi - i - s$, where the F is established (No. 333), $\epsilon \nu \eta$ (σ No. 428) 688 έχω (σ No. 170), Ίλισσός (F rt. Feλ, ίλιγξ No. 527, cp. δλ-μο-ς, είλλω, έλκύω), ίσος and έφ' ίσης καὶ όμοίας, έφ' ίση (F No. 569), and of examples from other dialects, there is the abovementioned ε-σταλκα and also the common ετος with καθ' έτος (so too the ModGk. έφ' έτος 'in this year'), δωδεχέτης, έννεακαιδεχετίς Inscr. Halicarn. in Wescher 'Revue Archéolog.' 1864 p. 135, πενταέτηρίδα (by the side of Fέτος cp. No. 210) 'Tab. Heracl.' i. 57, ίδιος, καθ' ίδίαν Keil 'Inscript. Thessalicae tres' p. 10 (F No. 601). — On the other hand there can be no doubt in other cases that the spiritus asper has crept in irregularly, in the Locrian HAΓEN (No. 117), ἀκούσιος (ἀν priv.), άλώπηξ (No. 525), and likewise in the non-Attic άκρός 'Tab. Heracl.' i. 65, Wachsmuth 'Rhein, Mus.' xviii, 539 (No. 2),

302 and Hugo Weber 'Ztschr. f. Gymn.' 1864 p. 128. Both find an objection in the meaning. But the Lat. dum too tallies with tum, although the latter denotes point of time, the former duration, and the apparently superfluous $\tilde{a}\rho a$ becomes less surprising, if we consider that $\tilde{a}\phi\rho a$ and $\tau \delta \phi \rho a$ are almost peculiar to epic diction, in which $\tilde{a}\rho a$ is readily annexed to words, and has but little force, Lange conjectures that $-\phi\rho a$ comes from $\pi \acute{a}\rho a$, and thus we should get the very suitable meaning $\pi a \rho$ ' \tilde{a} . But where can we find another instance in Greek of a preposition placed after its case and coalescing with it so as to form one word?

¹ Cauer 'Stud.' viii. 235 ff. has shown that in the Attic inscription given at 'C. I. A.' i. 324 there occur some very strange forms and great inconsistencies. For this reason I have here omitted the irregular breathings that are attested only by this inscription.

έννέα 'Tab. Heracl.' i. 36 etc. (No. 427), είδον = έ-Γιδ-ο-ν, όκτώ 'Tab. Heracl.' i. 48. — If we now pass from these examples of the sporadic appearance of the spiritus asper to those of the occurrence of the asper in ordinary Greek where we should expect the lenis, the question arises, are we in each single case to seek for a special ground for it, or to content ourselves instead with the recognition of the existence in general of a certain confusion? Our desire to find fixed laws in language wherever we can, inclines us to the former course. But what do we gain, here or in other like cases, when from a large number of instances we undertake to explain here and there one, and that with difficulty, and find a number of cases left, for which our explanation will not hold good, and in which we have after all to recognize an aberration of the linguistic sense? And such is necessarily the case here. The asper has above all regularly introduced itself before every initial v. But who can give any other reason e.g. in ὕδωρ (No. 300), ὑπό (No. 393), ὑπέρ (No. 392), ὕστερο-ς (No. 251 b), for the aspirate, which the related languages proved to have been wanting to the original initial, than the fact that the vowel v liked the asper? Just this vowel and no other took it: the old ov of the Boeotians had the lenis: ούδωρ (Ahrens 'Aeol.' 169), hence the Locrian ὐδρία (Allen 'Stud.' iii. 257)1. The case is the same with ἡγεῖσθαι (cp. Lacon. 'Αγηΐστρατος, Theb. 'Aγήσανδρος Beermann 'Stud.' ix. 49), which no one thinks of separating from ἄγειν (No. 117)—by the side of which we get the very rare dyew mentioned above—especially as the de-689 rived verb now and then itself shows the lenis: 'Αγήσανδρος, ' Αγησίλαος, 'Αγησίπολις, άγήτωρ, Att. 'Αγησίας (Lentz p. 692). Of ἄπτω in its relation to ἀπήνη, ἡπήτρια we treated on p. 510. It is true that in a certain number of cases of this sort Kuhn ('Ztschr.' ii. 260) and after him Christ (109), and similarly Savelsberg 'Ztschr.' vii. 380, have sought to prove that this spiritus asper at the beginning of the word springs from a

¹ The work of Süpfle 'De l'h initiale dans la langue d'oil 'Gotha 1867 contains an interesting collection of matter on the subject of aspiration before certain groups of sounds. The h of the Fr. huile, huit, of the Span. huebra (opera), huevo (ovum), discussed by Diez i. 370, forcibly reminds us of the Greek spiritus asper before v.

spirant which has been displaced from the middle. So nueis (Aeol. $\tilde{a}\mu\mu\epsilon s$) = Skt. as-mát, $\tilde{\eta}$ - $\mu\alpha\iota$ from the rt. $\tilde{a}s$ (No. 568), $\epsilon \ddot{v}$ - ω from $\epsilon \dot{v}\sigma$ - ω (No. 610), \ddot{v} - $\mu \epsilon \rho \sigma$ - σ from $\dot{v}\sigma$ - $\mu \epsilon \rho \sigma$ - σ (No. 617), iερό-s from isara-s (No. 614). Kuhn holds that the sibilant first changed to h and then went from the middle of the word to the beginning. He accordingly assumes not only forms like εὐώ, ίέρος, which at all events find counterparts in Laconian interaspirated forms, but even áhues, hhuai, to which there is nothing analogous anywhere. It is extremely improbable that the Greek spiritus asper ever had a place before any consonant but p1. Then there are other difficulties besides. In the Dor. aués, and in the Attic hueis the vowel owes its length, as is shown by the Aeol. auues, to the dropping out of the σ . On their showing this loss has had effect twice over, once at the place where the letter stood at first, and again at the beginning of the word to which it has been transported. Further, what explanation is to be given of ήσται, ήστο, where the σ occurs as well as the initial spiritus asper, which was supposed to owe its existence to the transformation and displacement of the σ? Kuhn (275) takes refuge in the 'analogy of the other forms.' But the third person is certainly more frequent than the first, the singular and plural of which along with the third pl. alone come in for consideration. Besides εύω (No. 610), a by-form of εύω, the form εύστρα also has the asper. There is no difference of initial between αύστηρός and αὐαλέος. And how is it that we do not find $\epsilon i\mu i$ too, for the σ was dropped just in the same way? No one surely will appeal to the entirely isolated είμί which does occur in a Theraic inscription (Keil p. 10). In no case then can there be said to be a law of the kind mentioned above: it is at most only a phonetic tendency confined to a small circle of words. On the unsuccessful attempts to explain the spiritus asper in είμαρται I may refer to my 'Greek Verb' p. 361 and above p. 331. That the asper of the Boeot. $i\omega \nu = \dot{\epsilon} \gamma \dot{\omega} \nu$ (Apollon. 'De pron.' 51 Schneider)—a word which is moreover found with the lenis as well (Ahrens 206, cp. Ital. io)—has

¹ The extraordinary MHEIZIOΣ=Miξios (gen. of the proper name Miξis) on the Corcyraean inscription treated of by Bergmann 'Hermes' ii. 136 is entirely isolated.

anything to do with the expulsion of the F or with the h in the Skt. ahám, is the less credible from the fact that the comparison of the Goth. ik decides in favour of q as the original 690 letter, whence it results that no aspirated sound or h existed in the word from the beginning. I prefer in all these cases to admit for Greek the existence of an aberration which can be explained from the history of the language on the analogy of that above shown to exist in Latin and the Romance languages. Disturbances of phonetic laws declare themselves mostly by dialectic deviation. This is the case with the phenomenon we are now discussing. We often find that some dialect shows the lenis, especially the Aeolic of Asia, though it has not entirely lost the asper: ἄμμες, Homeric ἄμμε, Aeol. άγήσαιτο, άρμα (No. 488), 'Αρμοξίδαμος (Ahr. 'Aeol.' 29), ἴππιος, Tarentine "/κκος, Sicelian ἰπνή ἐφιππίς by the side of Γλαύκιππος, Δέρκιππος, Λεύκιππος (cp. p. 462), Elic ἐπίαρος (Ahr. 'Aeol.' 226). Sometimes it is only the Attic, a dialect readily inclined, as we have seen, to the aspirate, that has it: e. g. in έως = Ep. ήως, Dor. άως, Lesbian Aeol. αύως (No. 613). In ήλιος (by the side of ἀπηλιώτης, ἀπήλιος cp. Lobeck 'Ad Ajacem' ed. ii. p. 356) = Ep. $\dot{\eta}\dot{\epsilon}\lambda\iota\sigma$, Cret. $\dot{\alpha}\beta\dot{\epsilon}\lambda\iota\sigma$, Dor. $\dot{\alpha}\dot{\epsilon}\lambda\iota\sigma$ (No. 612) the Attic is supported by the agreement of the New-Ionic, but etymology establishes the priority of the lenis. In the two last-named words the dialectic forms prove that of the original stem-syllable αὐσ (cp. aur-or-a, i.e. aus-os-a) first the σ disappeared, and then the ν which is the softened F. Hence there can be no question here of transposition of the σ . By the side of δρ Fos, δρβos, Ion. ουρος (discussed on p. 586) and the form opos (autopos) which repeatedly occurs on the Heracl. tables, Attic has opo-s ('boundary') as the established form, perhaps to distinguish it from op-os ('mountain.') For if we are to look for grounds for the confusion between the breathings, it seems to me that in the case of a phenomenon of such

¹ Ascoli 'Krit. Stud.' 315 has pronounced Christ's conjecture ('Lautl.' 239) that ἐώς comes from a primary *vasas to be 'convincing.' In that case all the other forms would have to be referred to another primary form. We should have expected *εὐως like εὕχομαι (cp. p. 702). But in Lesb. it is αΰως, in Dor. ἀώς, so that we can certainly deduce the existence of åfos.

comparatively late appearance in language, the grounds must be of a much more special character. I do not think it impossible that $\eta \mu \epsilon i s$ should have owed its asper to the analogy of ὑμεῖς; and so ἡμαι might be influenced by ἔζο-μαι (No. 280), especially by means of the aor. είσα. άμαρτεῖν (cp. 'Gk. Verb' p. 281)—Homeric ήμβροτον, άβροτάζω—whose meaning almost compels us to go for its origin to the privative av and the rt. μερ (No. 467), not, as Benary 'Ztschr.' iv. 49 takes it, to No. 466, perhaps sounded like αμα, ίστωρ by the side of ίδεῖν 691 perhaps like ἴστημι, ἰστός. The Heraclean ὀκτώ, to which we may now add χώγδοον found on a comparatively late inser. from Dyme in Achaia, and έννέα perhaps followed έπτά. ἄγιος, ayos (No. 118) drew after itself some forms belonging to ayos (No. 116). It is conceiveable that the particle εως is to blame for the aspirate in έως, just as many Germans say Augenbraunen for Augenbrauen ('eyebrows'), and as other relationships and parallels are discovered by 'popular' etymology'.

F. Groups of Consonants.

In the course of these investigations attention has been repeatedly called to the fact that groups of sounds are subject to other laws than those which hold for individual sounds. This is seen nowhere more clearly than in the case of diphthongs. Their manifold transformations, e. g. in Latin, for which we need only refer to Corssen's thorough treatment of the question, are subject to laws quite different from those of the affections of the individual vowels. Consider only the history of the diphthongs ai, oi which are so constantly weakened not only to ae, oe but even to $\bar{\imath}$, \bar{u} , though we see not the remotest trace of similar weakenings in the case of the individual vowels a and o. For instance, the old \bar{a} , in the nom. sing. at most goes no farther than &, while in the dat. and abl. plur. it disappeared in time altogether (ala, alīs). Groups of consonants, especially at the beginning of a word, which is etymologically the most important part, give the

¹ [See above p. 438, and cp. Sayce 'Principles of Comparative Philology' p. 376-8.]

vocal organs most trouble. The inclination to make these groups easier, to render their several elements mutually more accommodating, and even to drop one or more of them out, is therefore one which needs little explanation, especially as a small loss or change here leaves the effect on the ear essentially the same, and consequently the change entails far less danger than in the case of simple sounds to the interests of distinctness, the preservation of which is a principle which must take an important rank by the side of the proneness to 'weathering away' which has been noticed in the life of language. To the fact that the Greek aspirates are in a sense groups of sounds we have already appealed as ground for the supposition of similar peculiarities in the case of these sounds.

Pott ii¹. 297 and Leo Meyer i. 183 ff. have made many comparisons of initial groups of consonants. Max Müller 'Lect.' ii. 169 gives some remarkable instances of defaced groups of 692 sounds from different languages. We here confine ourselves to such movements of sound as are distinctly to be seen, and shall be more than usually careful to exclude doubtful instances. Some cases have been already noticed at p. 429 ff.

To begin with, we will take the simplest case of defacement, that of the loss of a consonant.

1. Loss of a Consonant.

Since Greek shows no disinclination to the harsh combinations made by κ , π , χ , ϕ , γ , β with a following dental of the same order, it is with the groups beginning with the sibilant that we shall here be specially concerned. On the whole these groups too are faithfully preserved, and in this respect all we need do is to point to words and roots like $\sigma\kappa\alpha\iota\acute{o}$ - ς (No. 105) = Lat. scaevu- ς , $\sigma\kappa\acute{\eta}\pi$ - τ - ω (No. 108), $\sigma\kappa\acute{\alpha}\pi\tau\omega$ (No. 109) by the side of the Lith. $k\acute{\alpha}pa$ - ς , $\sigma\kappa\iota\acute{\alpha}$ (No. 112), rt. $c\tau\alpha$ (No. 216), $c\tau\epsilon\mu\phi$ (No. 219), $c\tau\epsilon$ (No. 226) by the side of the Skt. $ti\acute{g}$, $\sigma\pi\lambda\acute{\eta}\nu$ (No. 390) by the side of the Skt. $pl\ddot{\iota}h\acute{\alpha}n$. On the other hand we find sporadic instances of a twofold lightening of such groups, either by the loss of the sibilant, or by the expulsion of a following sound. We will first discuss the former, by far the more frequent of the two.

(a) Loss of a Sibilant.

This has become the rule in the case of $\sigma \rho$ and $\sigma \nu$, which are combinations not allowed in Greek. Thus the Gk. rt. pu (No. 517) corresponds to the Skt. sru, Lith. srav-jù. The Latin representatives of this root discussed at p. 352 probably point to the fact that the loss of the initial s belongs to the Graeco-Italic period. In the middle of the word, to judge from forms like $\epsilon \rho \rho \epsilon \epsilon \nu$ from $\epsilon - \sigma \rho \epsilon F - \epsilon - \nu$ (Skt. $\alpha - srav - a - t$), the srseems to have been preserved longer intact. — So too for νάω and $\nu \hat{\epsilon}$ - ω (No. 443) we gave the rts. sna and snu, whose initial was to some extent left untouched in Skt. and Zend, in Umbrian, Teutonic, Lithuanian, and Irish, and we traced vuó-s (No. 444) to σνυσο-s. The Lat. nuru-s here shares the loss of the s, and the same applies to the rt. νιφ (No. 440), νίφει by the side of the Lat. ning-it and the OHG. sniwit, Lith. snigti, and to the rt. νεφ, from which come νεῦρο-ν and nervu-s (No. 434) by the side of the OHG. snar-a.

A σμ occurs tolerably often in Greek: σμάω (Pott W. i. 388), σμηνος, σμερδαλέος. At all events in the latter of these words the $\sigma\mu$ is original, if with Ebel ('Ztschr.' vii. 227), and Corssen ('Beitr.' 430) we refer this word and the related σμερδνό-ς to a rt. smard, a root which has lost its s in the Skt. mard = 693 Lat. mord-ere (No. 457), though it has faithfully preserved it in the OHG. smërz-an. It is true the meaning of the Gk. words is somewhat more remote. But a comparison of the English smart makes the transition from 'biting' to 'hurting' and 'alarming' seem not impossible 1. - In certain dialects by-forms in $\zeta\mu$ seem to have subsisted, if we may trust Eustathius p. 217, p. 1421, who calls the f in this connexion at one time Achaean, at another Attic. Still we find on inscriptions a weakening of σ to the sibilant sound given to ζ by the later Greeks, at all events in the proper name Zμύρνη and in the Delphian form καταδουλιζμώ (Wescher-Foucart No. 433, 13 p. 312). The double μ in φιλομμειδ-ής by the side of μειδιάω (No. 463) preserves a trace of the rt. smi. From a weakening like this to the complete rejection of the letter

¹ We have a remote connexion perhaps in σμαρ-κό-ν, interpreted in Hesych. by καθαρόν (²), βρωτικόν, δριμύ.

was but a short step ¹. This step has been taken in the case of μέλδ-ω (No. 287), μάρ-το-ς, μέρ-μερ-α, μέρ-ι-μνα (No. 466), and μύδ-ος (No. 479), where only the related languages have retained the s. μικρό-ς is to be found from Homer onwards by the side of σμικρό-ς. Fick i³. 835 compares the word with the OHG. smålir 'littleness,' 'insult,' and the Lat. mac-er, Joh. Schmidt with the Lat. mic-a, mic-ula, 'crumb,' mīcidus 'tiny' ('Voc.' i. 108). — σμυκτήρ ὁ μυκτήρ, and σμύσσεται ἀπομύσσεται Hesych. are peculiar. For the related languages only know of forms with no initial σ (No. 92).

About the following words we can be certain, - thanks especially to Lobeck 'Elem.' i. 125, —that a or has been lightened to a simple k. His 'Dissertatio de prosthesi et aphaeresi 'discusses minutely and exhaustively, from a specifically Greek point of view, the other groups of consonants found at the beginning of words. — Just as, in the case of $\sigma\mu$, $\zeta\mu$ served as a transition to the simple μ , so we can appeal to the license of Homeric prosody, which left a vowel short before $\sum \kappa \alpha \mu \alpha \nu \delta \rho o s$ (Y 74 etc.) and $\sigma \kappa \epsilon \pi \alpha \rho \nu o \nu$ (ι 391, ϵ 237) as showing an intermediate step between $\sigma \kappa$ and κ . The necessities of the metre produced the same result here, at all events as far as the ear went, which was produced in the other case on both ear and eye alike by the inclination to ease in pronunciation. Lobeck points out that the same relation exists in Homer and Hesiod between κίδνασθαι and σκίδνασθαι (ὑπεὶρ άλα κίδναται 'Hώς Υ 227 — but Π 375 σκίδναθ' ὑπὸ νεφέων) as between κεδασθέντες (Β 398) and σκέδασεν (Ρ 649). The σκ (Nos. 294, 295) is evidently primitive. So we get side by side σκάπετο-ς and κάπετο-ς 'ditch' (Hesych.) while the verb 694 σκάπτειν preserves the fuller initial, which, as has been shown under No. 109, must be regarded as the older. The Letto-Slavonic family shows the same aphaeresis. καφά λουτήρ (i.e. 'bathing tub') λάκωνες Hesych. clearly belongs to σκάφος 'ship,' 'hollow' and σκαφίς 'tub.' The name for the fox, attributed to this root at No. 109, is sometimes σκαφώρη and sometimes καφώρη. - Hesychius gives us καρθμοί· κινήσεις, Cyrillus (M. Schmidt on Hesych.) καρθμός · ὁ πούς, words which we

¹ Cp. the different treatment of $\sigma\mu$ in the middle of a word discussed above on p. 433.

agree with Lobeck in thinking related to σκαίρειν 'hop.' Το the same root in the sense 'start,' 'quiver' probably belongs κεραυνό-s and the Lat. coru-scu-s. For the latter we get the by-form scoru-scu-s (Loewe 'Prodr.' 355). Cp. Brugman 'Stud.' viii. 315, Van. 1246. — σκάριφος (p. 533) and the commoner κάρφος 'twig,' 'splinter' are no doubt one and the same word; we can be all the more certain of this, because we find a connecting link between them in the dim. σκαρφίον and the verb σκαρφά-ω 'splinter' (Lobeck 'Prolegg.' 294). - κίμψαντες έρείσαντες (Hes.) is to be referred to the root with the fuller initial which we get in σκίπων, σκίμπτειν, and is discussed at No. 108. — A kind of ant is called σκνίψ (st. σκνίπ and σκνίφ) and κνίψ, - also σκίψ Lob. 'Paralipp.' 114. Cp. Pott W. i. 678, where the ChSl. sknipa 'culex' is compared. — On the relation of the rt. κο to θυο-σκόος and the forms of the related languages we need only refer to No. 64; with reference to σκῦτος and κύτος to No. 113, to which must be added the derived form σκυτάλη, and the by-form κουτάλη quoted by Lobeck 126, and said to be Doric. —For the root of κείρω, κόλο-ς, κολούω we found at No. 53 that the primary form was skar. Besides these I may call attention to No. 45 b κείω, No. 59 κληί-s, No. 686 κόπτω, No. 76 κρίνω.

A $\sigma\pi$ has been weakened to π in the following instances: rt. πεν (No. 354) by the side of σπα, σπάνις, πί-νο-ς 'dirt' (No. 365) by the side of $\sigma\pi\hat{\imath}-\lambda o$ -s 'spot' and the OBohem. spi-na. — There is no clear etymology which will account for the relation between $\sigma\pi\epsilon\lambda\epsilon\theta$ os ('E $\lambda\lambda\eta\nu\iota\kappa\hat{\omega}$ s) and $\pi\epsilon\lambda\epsilon\theta$ os ('A $\tau\tau\iota\kappa\hat{\omega}$ s) and σπύραθος, πύραθος connected with it by Lobeck on account of the meaning 'dung.' Conjectures are given by Leo Meyer i. 64, and Walter 'Ztschr.' xii. 383. The form σπέος however for $\pi \acute{e}os$ 'penis' is not established (No. 355). — Less probable again is Leo Meyer's view that the rt. mik (No. 100) has lost a sibilant, the only proof of which is to be found in spica, spiculum and spina; and their relationship is by no means clear. Other combinations for these words are given by Corssen i². 538. — Before ϕ the Laconians dropped the σ in the dat. pl. of the 695 reflexive pronoun $\phi i \nu = \sigma \phi i \nu$ (No. 601, Ahr. 'Dor.' 271), and in the same way the Boeotian in $\Phi i \xi = \Sigma \phi i \gamma \xi$ by the side of σφίγγειν 'strangle,' but with a κ in the stem acc. Φίκα (Beermann 'Stud.' ix. 60). — On the other hand at No. 558 we expressed a doubt whether the σ of the rt. $\sigma\phi\alpha\lambda$ ever disappeared.

Before 7 the sibilant has certainly fallen away in the following words: ταῦρο-ς (No. 232) by the side of the Ved. sthūrá-s, Goth, stiur, τέγος, τέγη by the side of στέγος, στέγη (No. 155) and the Skt. sthág-ā-mi, where again the Lat. teg-o and the ON. thak (OHG. dek-ju) correspond with the shorter form, rt. τυδ (No. 248), preserved in Τυδ-εύ-s, by the side of the Lat. tund-e-re and the Skt. tud, but the Goth. stau-ta (OHG. stoz-u), rt. $\tau \alpha \phi$ (No. 233) by the side of the Skt. stambh. The same relation is to be seen in the case of the rt. TUTI (No. 249), OHG. stumpf and Skt. pra-stump-a-ti along with στυπάζειν. It seemed probable that the same loss has been sustained by τέρας (No. 205). τόπ-ο-ς has been connected with the Skt. sthāp-ájā-mi 'place,' to which it would bear the same relation as that borne by the German Stelle ('place') to the verb stellen ('to place'). The o makes this very doubtful. - We have a Latin instance of the expulsion of s before t in toru-s by the side of stor-ea (No. 227). (Cp. Corssen i2. 278.) The Skt. tál-p-a-s 'bed,' too, of similar meaning, is referred in the 'Pet. Dict.' to the rt. star, of which tal-p would have to be regarded as an expansion. With τύρ-βη (No. 250) is connected στυρ- $\beta \acute{a} \dot{\xi} \epsilon \iota \nu = \tau \nu \rho \beta \acute{a} \dot{\xi} \epsilon \iota \nu$ and perhaps the German Stur-m ('storm'), and we may also mention the onomatopoetic verbs τρύζειν and στρύζειν (Lob. 'El.' i. 131), and τρίζειν by the side of στριγ-μό-ς. But we have no right to compare the Latin strīd-ē-re with the root shown by $\tau \in \tau \rho \bar{\nu} \gamma - \alpha$, as the d cannot be reconciled with the y. The view that \(\tau \times \nu \sigma \) in the sense of 'tone' ought to be separated from the rt. TEV and referred to the onomatopoetic rt. otev, stan has, I believe, been refuted at No. 230. On the other hand we conjectured that the rt. Tar (No. 230 b) arose from stag.

(b) Loss of another Consonant.

That the sibilant should suppress a following consonant is a priori only probable in the case of the spirants, which in so many instances besides had to lose their place in the mouths of the Greeks. The digamma met with this fate in: $\sigma \acute{a} \lambda o s$

σάλ-η (No. 556), σέλ-αs along with Σειρ-ιο-s from the rt. svar (No. 663), σιγ-ή (No. 572) by the side of the Germ. schweigen ('to be silent'), σίδ-ηρο-s by the side of the Skt. svēd-αηῖ 'iron pan' (No. 293), σόβ-η (No. 574) by the side of the Germ. Schweif ('tail'), σομφό-s (No. 575) by the side of the Goth. svamm-s, probably too in σαίνειν 'wag the tail,' Hom. περισσαίνειν, by the side of the MHG. swanz ('tail') (Delbrück 'Ztschr.' xvii. 239). — But explosive sounds too are perhaps now and then expelled after the sibilant; this has happened to τ in σύρβη, σύρβα the ordinary Greek forms for the Attic 696 τύρβη, τύρβα, both, as we saw, probably from the rt. στυρ (No. 250), although the objection is here admissible that σ is weakened from τ like the σ in σύ by the side of τύ. There are many doubtful cases (among which I reckon συλάω by the side of σκύλο-ν No. 113) which we need not discuss '.

Even before a sibilant an explosive was suppressed under certain circumstances. Here we must place the usual form $\sigma \acute{\nu} \nu$, in the place of the more original $\xi \acute{\nu} \nu$, which is also replaced by cum and $\kappa \nu \nu$ (p. 544), the Boeotian and Arcadian $\dot{\epsilon}$ s for $\dot{\epsilon} \xi$, mentioned on No. 583 b, the Cypr. $\sigma o \acute{\alpha} \lambda \alpha = \xi \nu \acute{\eta} \lambda \eta$ (M. Schmidt 'Ztschr.' ix. 367)², and the dialectic representation of ψ by σ : $\sigma \acute{\iota} \tau \tau \alpha \kappa \sigma s$ by the side of $\psi \acute{\iota} \tau \tau \alpha \kappa \sigma s$, though this is probably a foreign word, $\check{\alpha} \sigma \epsilon \kappa \tau \sigma s = \check{\alpha} \psi \epsilon \kappa \tau \sigma s$ in Rhinton

¹ Here may be added Delbrück's conjecture ('Ztschr.' xvii. 238), that σῶμα (for σκωμα) corresponds to the OS. hamo 'covering,' OHG. Wh-hamo 'corpse.' In that case the root would be that mentioned at No. 112.

² H. W. Roscher has drawn me up a list of forms in which ξ and σ are interchanged. After removing those which are etymologically obscure, and also those in which an Attic σ makes its way even in Doric into the place of the genuinely Doric ξ discussed on pp. 615 and 632 (tabb. Heracl. i. 51 ['C. I. G.' No. 5774] κατεσωίσαμες, ii. 30 [5775] κατεσωίξαμες), we are left with the following important instances benides those mentioned in the text: at the beginning of a word in ½ενοφίλου = Ξενοφίλου (in the Roman period 'C. I.' 2585), in the middle in 'Ανασικλέους (1591, 34, Boeotian), Δεσίω = Δεξίου (2598, Cretan), δεΐσιν = δεΐξιν (2820, Rom. period), ἀναδεσάμενον (3080, Rom.) Παράδοσος = Παράδοξος (Wieseler 'Jahn's Jahrb.' 1868 p. 127), at the end in πίριε = πέριξ (1625, 14, 58, Boeot.). — For σ for ψ R. quotes σελλίξεσηθαι ψελλίξεσθαι Hesych.

(Ahr. 'Dor.' 99), $\sigma \omega \chi \epsilon \iota \nu$ Ionic for $\psi \omega \chi \epsilon \iota \nu$. We may probably too assume the same intermediate step between $\psi \alpha \mu \mu \sigma s$, $\psi \alpha \mu \alpha \theta \sigma s$ and $\alpha \mu \mu \sigma s$, $\alpha \mu \alpha \theta \sigma s$. It is probable indeed that the Lat. sabulu-m and the Teutonic sand are also related; and they show the s that we should expect to find. Fick's assumption (i³. 160) that the Skt. bhas is the root, and that by metathesis it became $ps\bar{a}$ which also means 'bruise' (Van. 631, Brugman 'Morphol. Unters.' 18) is ingenious.

2. CHANGE FROM ONE ORGAN TO ANOTHER.

In words which are undoubtedly related there occurs not seldom after a sibilant a different explosive: sometimes the variation occurs within Greek itself, sometimes as between Greek and the other languages. Diez 'Gramm.' i. 266 notices the same phenomenon in the Romance languages: e.g. Ital. fischiare for fistulare, mischio for mistio. I regard alterations of this kind as occasional aberrations due to similarity of sound. So we find σπ for σκ in σπάλαξ, ἀσπάλαξ by the side of the older form σκάλοψ, which is shown by its etymology 697 (No. 106) to be the older, so too σπάλ-α-θρο-ν 'coal-shovel,' by the side of σκάλ-ευθρο-ν, σκάλ-εθρο-ν. Since σκαλεύω (cp. σκάλλω) is also used especially of 'poking the coals,' the etymon is undoubtedly No. 664. The Gk. σπινθήρ (p. 504) is confronted by the Latin dim. scintilla, though Fick 'Ztschr.' xxi. 2 explains it otherwise. On the other hand we find for the Gk. σκῦλο-ν (No. 113) the labialised spolia in Latin. Eustath. 'Ad Il.' 947, 13 mentions σφαρίζω by the side of σκαρίζω 'hop.' Considering the related σκαίρω and σκιρτάω the $\sigma\kappa$ seems to be older than the $\sigma\pi$. But we have good reason for holding the order of the sounds in the Lat. spec-i-o to be older than that in the rt. cκεπ (No. 111). σφ occurs in the rt. cφαλ as the correlative of the Skt. sphal (No. 558), but the latter language has also a form skhal.

There is a connexion between the very common στ and the harder σκ in the st. σκαρτ (nom. σκώρ) by the side of sterc-us and στεργ-άνο-ς (No. 110), where the κ has the Teutonic and Slavonic on its side; in στόλοκρον τὸ περικεκομμένον τὰς κόμας καὶ γεγονὸς ψιλόν, i.e. 'cropped,' and so of

the same meaning as σκόλ-υθρο-ς discussed at No. 114; in σκάφος (No. 109) with the by-form στάφος preserved in Hesychius. There are also cases where $\sigma\pi$ is connected with στ. There seemed (No. 354) to be good grounds compelling us to assign to the Dor. σπάδιο-ν priority over the ordinary Greek στάδιο-ν: we compared it, at all events as far as the root went, with the Latin spatiu-m. So too the Skt. shiv cannot be reckoned anything but a weakening of the rt. spiu, spu (No. 382) which appears elsewhere. It is more difficult to say what is the relation of the Aeol. cπελ (σπαλείς, σπόλα) to στέλλω, στολή (No. 218), but I am very much inclined to couple the Lat. stud-e-o, stud-iu-m with the almost synonymous σπεύδ-ω, σπουδ-ή (cp. Fick i³. 251) and to regard the labial as older than the dental. Kuhn 'Ztschr.' iii. 324 compares with σπεύδ-ω the OHG. spuon, spuoan, along with the derived OHG. spuatôn, AS. spêdan. The & must in that case be secondary, and the u have arisen from a. (Cp. Corssen 'Nachtr.' 117.) - Much doubt has been thrown on the connexion of στροῦθο-s (or στρουθό-s) with the synonymous Goth. sparva 'sparrow,' since Joh. Schmidt ('Ztschr.' xxii. 316) has shown, that in the ModGk. σπουργίτι, to which perhaps belongs σπέργουλος ορνιθάριον άγριον (Hesych.), we have a name for the same creature with a π .

3. OTHER AFFECTIONS.

We here assign the first place, not without reason, to the aspiration produced by a sibilant on a following explosive.

698 This is one of the commonest affections, and it has been sufficiently discussed on p. 503 ff.

We met with a few cases of the softening of an initial κ to γ when joined to ν on p. 535. To these we may perhaps add $\gamma \delta o \hat{\nu} \pi o - s$, 'noise,' which is further defaced to $\delta o \hat{\nu} \pi o - s$, and can hardly be separated from the almost synonymous $\kappa \tau \hat{\nu} \pi o - s$.

κτ corresponds in a number of clear instances to ksh, i.e. an older ks in Sanskrit (Ascoli 'Stud. Crit.' 378). Here belongs the Gk. rt. κταν, κτεν, 'kill' = Skt. kshan, Zd. khsan (No. 77 b), κτι 'build' = Skt. kshi (No. 78)¹; we find the same in the

¹ To this root belongs also the word KTOINA which may now be read

middle of the word in τέκτων (No. 235) = tákshā, ἄρκτο-ς (No. 8) = rksha-s. It is important to notice the by-forms with a simple κ: καίνειν, ἄρκος. Το these Leo Meyer i. 193 adds κτεί-s st. κτεν, 'comb,' by the side of ξαίνειν 'comb,' 'scratch,' which seems to be related to Efect 'scrape' and the kindred words. We might add κτεδών 'tear,' 'cleft in wood' (Aristonicus on Y 169), if it were not that here the lengthened rt. cκεδ (No. 294) is the base of the word. We may moreover compare the Boeot. ὄκταλλο-ς with the Skt. forms áksh-i, aksh-án (p. 464). Aufrecht ('Ztschr.' viii, 72), taking his stand on the fact that elsewhere the priority of the t to the s is firmly established, regarded the Greek form as the oldest, and conjectured that ks came from kt by the weakening of the explosive to the sibilant. Schleicher ('Compend. 3' 167, 204). and Pott ii². 508 followed him in this view. Pott W. ii. 2, 307 now admits that the Gk. 7 is due to assimilation. ks became kt owing to the influence of the preceding k. We saw in $\sigma\pi\delta\gamma\gamma$ 0-s (No. 575) and $\sigma\phi\epsilon = sva$ (No. 601) an assimilation of a like tendency.

It is still easier to explain the occasional interchange of position between the sibilant and the explosive, inasmuch as here again it is the general impression presented by the combined sounds, in whatever order, with the preservation of which the linguistic instinct linked the meaning of the word or root. This change appears as a special dialectic peculiarity in the Aeol. $\sigma\kappa i\phi os$, $\sigma\pi i\lambda iov$, $\sigma\pi a\lambda is$, $\sigma\delta v\gamma iv$ (Ahrens 'Aeol.' 699 49) instead of the ordinary Greek $\xi i\phi os$, $\psi i \lambda iov$ ('curb'), $\psi a\lambda is$ ('shears'), $\xi v\gamma iv$. It is probable that in the case of $\xi i\phi os$ and the related $\xi i\phi \eta$ 'the iron of a plane' (Hesych.) the

several times in the inscrip, from Kamiros in Rhodes of the fourth century before Christ, published by C. T. Newton 'Trans. of the R. Soc. of Lit.' vol. xi. New Series: so quite at the beginning ἔδοξε Καμιρεῦσι τὰς κτοίνας τὰς Καμιρέων τὰς ἐν τῷ νάσφ καὶ τὰς ἐν τῷ ἀπείρφ ἀναγράψαι πάσας. Clearly, as Newton has seen, Hesychius's interpretation (κτύναι ἢ κτοίναι δῆμος μεμηρισμένος) of 'community,' 'settlement,' suits this. It is a new guarantee of the excellent sources from which his lexicon is drawn. Similarly κτίσμα, κτίσις. The accentuation κτοι-νά would agree with ποι-νή, κτοί-να with θοί-νη. Also at l. 14 there is the derived κτοινά-τα-ς (cp. δημό-τη-ς).

Aeolic form has probably the original position of the sounds, as Fick i3. 808 well compares the ON. skafa f. 'scraping-iron,' OHG. scaba f. 'plane' (cp. ChSl. skob-l' 'radula'), while (vyó-v is without doubt older than the Aeolic σδυγόν (p. 626). There is evidence that some of these forms are Doric as well (Ahr. 'Dor.' 99), and with them we may class the Syracusan form of the reflexive pronoun— $\psi \hat{\epsilon}$ for the ordinary Greek $\sigma \phi \hat{\epsilon}$ (ψέων, ψίν, ψέ Ahr. 'Dor.' 261), —and ψύττω which at No. 382 we referred along with $(\epsilon \pi \iota) \phi \theta \dot{\upsilon} \sigma \delta \omega$ to the rt. spu. What is the relation of Hesychius's ἀσπίθιον to the synonymous άψίνθιον it is hard to determine. On the other hand σφόνδυλo-s 'whirl' seems to come from a rt. spand (No. 296), so that ψενδύλοι (Hesych.) is due to metathesis. With ψεκάς or ψακάς 'drop' Fick i3. 831 connects the Lith. spaka-s 'drop,' 'dot.' Again we find the Gk. igó-s 'mistletoe,' birdlime,' confronting the Lat. vis-cu-s, vis-cu-m (Fick ii3. 242), igú-s 'flank' has been compared with the Lat. visc-er-a (Van. 969), the Gk. σφήξ, Lat. vespa confronting the OHG. wefsa (No. 580). Perhaps we have in ψήν 'gall-fly' which Fick i³. 160 compares with the Skt. bhus-ana-s 'bee' the same group preserved in a different order. ψόα, Ion. ψύη 'the reins,' seems clearly related to ο-σφύ-ς 'hip,' perhaps even to the Skt. sphik 'hip' (Kuhn 'Ztschr.' iii. 324). It is perhaps not so clear whether the Gk. ξυρό-ν is related to the synonymous Skt. khsurá-s 'shearing-knife,' and the unauthenticated rt. kshur 'cut,' 'scratch,' and the German scheeren (shear, OHG. skeran). On the other hand σκύρο-ς λατύπη, i.e. 'rubbish fallen from cut stones, which Van. 1120 gives with ξυρό-ν can certainly not be separated from ξύειν 'scrape,' 'make smooth.' — The initial ψ still especially needs careful investigation. have already met with this double consonant in the Syracusan $\psi i \nu$ from the st. sva: here the ϕ of the corresponding $\sigma\phi\epsilon$ had first been hardened from F. We saw this hardening without a transposition in σφόγγο-ς, σπόγγο-ς No. 575. Perhaps this is the way to explain the Aeol. $Y\alpha\pi\phi\dot{\omega} = \Sigma\alpha\pi\phi\dot{\omega}$. It seems to me probable that this name is really equivalent to σοφή 'docta puella,' and so belongs to σαφής, σοφό-ς (p. 512). Ψαπφώ would bear to σοφή the same relation as the pronominal form $\psi \epsilon$ to the Lat. se. By the side of the form with πφ we find the simple φ as well, and conversely by the side of σοφό-s we have in Aristoph. 'Eccl.' 571 φιλόσοφος with a long penultimate (Roscher 'Stud.' i. 2, 123 f.). The same relation probably exists between ψόλο-s 'smoke,' and the German schwelen 'smoulder,' schwill 'sultry' (AS. svelan 700 'urere,' 'ustulare' [Eng. sweltering, sultry] Van. 1222). Joh. Schmidt ('Ztschr.' xxii. 314) regards ἄ-σβολο-s 'soot' for *ἀ-σΓολο-s as the intermediate stage.

4. SEVERAL AFFECTIONS COMBINED.

Although etymologies, which assume an excessive number of changes of the originally existing sounds, readily awaken distrust, still the difficulty of pronouncing several groups of consonants is sufficient ground for accepting the supposition of the concurrence of several distinct defacements. But it is slippery ground after all. We must exact all the more complete similarity of meaning before we are convinced of the soundness of a comparison.

For instance I have under No. 106 connected with $\sigma\kappa\acute{a}\lambda o\psi$, transformed, as we saw on p. 696, to $\sigma\pi\acute{a}\lambda a\xi$, $\dot{a}\sigma\pi\acute{a}\lambda a\xi$, the Lat. talpa, because both words are names for the same animal, and preference for st rather than sc, sp is established by other analogies besides (stud-eo, stercus), while the loss of s before t finds still clearer precedents (p. 695). The a of talp-a may be compared with that of $form\bar{\iota}c$ -a by the side of $\mu\acute{\nu}\rho\mu\eta\xi$ (No. 482), and of upup-a by the side of $\epsilon\sigma\psi$ (No. 336).—Similarly I hold Leo Meyer to be right in connecting turg-e-o with $\sigma\pi\alpha\rho\gamma$ - \acute{a} - ω (by-form $\sigma\pi\alpha\rho\gamma\acute{e}\omega$), $\sigma\phi\rho\iota\gamma$ - \acute{a} - ω . The meaning 'swell up,' 'be puffed up,' both in its literal and in its metaphorical sense, is common to both words. Cp. Bugge 'Ztschr.' xx. 40. Fick i³. 833 adds $\dot{a}\sigma\pi\acute{a}\rho\alpha\gamma$ -o-s 'asparagus' = Lith. spurga-s, Zd. cparegha 'sprout.' But cp. p. 503.

Of the possibility of loss of the sibilant supervening upon another affection we have irrefragable proof in the form $\phi i\nu = \sigma \phi i\nu$ (Ahrens 'Dor.' 261) in which the Laconians show their usual love of conciseness. We claimed the same change for the Homeric $\phi \dot{\eta}$ 'as,' on p. 443. As here the sibilant disappeared after affecting the following spirant so after pro-

ducing aspiration in the case of the Lat. fid-es 'strings' by the side of σφίδ-ες (No. 297), where we can get no clear indication of the original form of the labial. Leo Meyer and Corssen i². 179 compare πνίγ-ω with the Lat. stingu-o, which can hardly be separated from the German er-sticken ('stifle' No. 226) and is connected by Pott ii². 682 with στίζειν. In that case it would be the exact opposite of the German an-stecken ('set fire to'). Leo Meyer's explanation is a possible one, supposing we regarded spig as the primary form, whence by nasalization spring, by change of organ sting, by loss of the s and 701 metathesis of the nasal pnig (for ping). But there are too many leaps here, and I still hold the conjecture given under the rt. πνυ (No. 370), to be more probable¹.

The union of aspiration with the loss of the s shows itself with special clearness in Sanskrit, where an sk very often changes to kh, a phenomenon which is most thoroughly discussed in Kuhn's often-mentioned essay 'Ztschr.' iii. 326 f., and again by Ascoli 'Lautl.' 183 f. In two widely extended classes of words the supposition of a change from or to x is highly probable, in the case of several verbs which are formed from shorter stems by the addition of a x, and in that of the Boeotian diminutives in -1xo-5 with which are allied a number of forms in ordinary Greek. As regards the verbs, we have one at all events which shows us the assumed transitional ox, i. e. the present-stem $\pi \alpha \sigma \chi$, which we refer to $\pi \alpha \nu - \sigma \kappa$. From the same stem an expanding θ produced $\pi \epsilon \nu - \theta$, $\pi \alpha - \theta$ (p. 63) and No. 354), so that πά-σχ-ω is the inchoative of πέν-ο-μαι, and is to be referred to $\pi\alpha\nu$ - $\sigma\kappa$ - ω . As we saw on p. 694, the root has lost an initial σ . The ordinary supposition, that the aspirate of $\pi\acute{a}$ - $\sigma\chi$ - ω is connected with the loss of a suppressed θ , cannot be proved. For we never find θ and $\sigma \kappa$ together; the former is frequent in agrists, the latter used exclusively in present stems 2 . If then the σ disappears in other verbs,

¹ The Skt. spaça-ti 'bind,' 'tie' compared by Fick i². 251 with σφίγγω and πνίγω though given in Westergaard's 'Radices' is not in the 'Pet. Dict.' and there is no close connexion between the meaning given by Justi for the Zd. spaç (avi-çpaç 'attack,' in one passage only) and the Greek words. There the vowels are different as well.

² Grassmann 'Ztschr.' xii, 120 compares παθ with the Skt. badh

after aspiration has resulted from it, we have for this the strict analogy of the verb-forms in σθ: - έρ-χ-ο-μαι: έρ-σχ-for such a shortening. Firstly a preceding consonant, after which or was hardly pronounceable. Probably this serves to explain only ἔρχομαι, which has been already repeatedly mentioned as identical with the Skt. r-kkh-ē (p. 556). Secondly the language has an objection to $\sigma \kappa$ after a diph- 702 thong. πιφαύσκω (No. 407) is the only word in which the consonantal and the vowel groups of sound come together. But the χ of $\epsilon \tilde{v} - \chi - o - \mu \alpha \iota^{-1}$ and $\alpha \dot{v} - \chi - \dot{\epsilon} - \omega$ seems to have originated in the same way. The former has long since been compared with the synonymous Skt. vānkh from the rt. van and stands for $\epsilon \dot{v} - \sigma \kappa - o - \mu \alpha i$, where the $\epsilon \dot{v}$ represents the syllable $v\alpha$ (cp. No. 499). The full group of consonants has been preserved in the OHG. wunsc ['wish,' cp. Dutch wensch]. The x which properly belongs only to the present-stem makes its way into other parts of the verb like the σκ in διδάσκαλος. Hence εύξομαι, ηὐξάμην, εὐχή. The same explanation may probably be given of the χ of the denominative αὐχέω 'boast myself,' which Benfey i. 17 refers to the same source as εύχ-ο-μαι

'strike,' 'kill' ('Pet, Dict.' vadh No. 324), $b\bar{a}dh$ 'press hard,' 'torture.' The same view is supported by Joh. Schmidt ('Vocal.' i. 94 ff.) with a wealth of original arguments. Still he convinces me all the less because his view leads eventually to the denial of any connexion between $\pi \acute{a} - \sigma \chi \omega$ and pa - i - o - r.

¹ The connexion of εθχ-ο-μαι with the Skt. ūh (ὁħ-ē), which Kuhn 'Ztschr.' x. 240 gives as an addition to a remark of Pott's (W. iii. 778), is not convincing because the Skt. word approaches only in a single application the Homeric use of εθχεται εθναι, while in its primary meaning of 'consider,' 'mark,' 'comprehend' (cp. ūħα-s 'consideration') it is too far removed from εθχεσθαι 'pray,' 'vow,' 'boast oneself' (cp. εὐχή, εθχος, εὐχωλή). Roth 'Ztschr.' xix. 220 compares εθχομαι with the Vedic vāghát 'the vowing,' 'praying' and the Lat. vov-eo for *vogv-eo. But the Teutonic word is a proof of the early existence of van-sk. The B of Βευχσίστρατος on the vase of Ergotimus 'C. I. G.' No. 8185 b seems to be not certain enough to be of any use etymologically. — εὐ=va as in εὖ-νι-ς 'bereft' by the side of the Goth. van-s, Skt. ūnά-s 'in want of.' Cp. Bugge 'Stud.' iv. 328, Fick. i³. 202.

(cp. εύ-ω by the side of αύ-ω No. 610), and also that of αύ-γμό-ς 'drought,' which was given under αΰ-ω No. 600 b. Lastly there is to be found in initial groups of consonants a third ground for the weakening down of ox to x, since, as will be discussed more in detail below, Greek does not like to let two consecutive syllables begin with two consonants: hence βλη-χ-ά-ο-μαι (No. 395) by bal-a-re, γλί-χ-ο-μαι by γλίσ-χ-ρο-ς (No. 544), πτω-σκ-άζ-ω by πτω-χό-ς 'beggar,' σμή-χ-ω 'wipe' by the side of σμά-ω, ψή-χω 'stroke,' 'graze' by the side of ψά-ω, ψαύ-ω, ψύ-χ-ω 'breathe,' 'cool,' which clearly, along with ψυ-x-os, ψυ-x-ρό-s, ψυ-x-ή, belongs to the rt. spu, sphu discussed on p. 509. $\psi v - \chi - \dot{\eta}$ then, like anima and spiritus, is properly 'breath.' νή-χ-ω, though not in the form preserved to us, probably once had an initial group of consonants, as has been shown at No. 443. In στενάχω (No. 220) it is possible that the or extended its influence even into the next syllable but one.

That the diminutive suffix -ιχο fem. -ιχα, mostly in Boeotian, corresponds to the common - ισκο is denied, it is true, by Schwabe 'De deminutivis' p. 49, but when viewed in this connexion it seems very probable, especially as the Boeotians show elsewhere a disinclination to groups with a sibilant in them: $i_{\tau\tau\omega} = i_{\sigma\tau\omega}$, $i_{\sigma\tau\theta} = i_{\sigma\tau\theta} = i_{\sigma\tau\theta} = i_{\sigma\tau\theta}$. The forms which occur have been sufficiently discussed by Boeckh 'C. I.' i. p. 725, 708 Ahrens 'Aeol.' 216, Schwabe ut sup., and Budenz 'On the suffix - k65' p. 76. Among the diminutives must be placed also several substantives and adjectives in ordinary Greek, e. g. πυρρίχη 'torch-dance,' βόστρυχο-ς 'curl,' which we may follow the 'E. M.' 205, 32 in connecting with βότρυ-ς 'bunch of grapes,' and all the more certainly because βότρυχο-ς 'grapestalk, the undoubted diminutive of Borpu-s, occurs with the very same meaning as βόστρυχο-s, e.g. in Pherecrates Fr. 67 Mein., in Euripides 'Phoen.' 1485 (βοτρυχώδεος [cp. Hermann in loc.]), and in Apollon. Rhod. ii. 679. No one of course will conceive the σ to have been inserted: βόσ-τρυ-χο-ς must be regarded as the more perfect form and hence we must assume a primary βοστρυ-ς, whose origin is however lost in obscurity. In both words a reason might be found for the change of ox to x in the group of consonants in the

preceding syllable. The case of $\sigma\tau\delta\mu\alpha-\chi o-s$ 'stomach' (No. 226 b), no doubt a diminutive of $\sigma\tau\delta\mu\alpha$, is probably the same as that of $\sigma\tau\epsilon\nu\dot{\alpha}\chi\omega$ mentioned above. Though there is no phonetic reason to account for it, we may regard $o\check{v}\rho-\alpha\chi o-s$ and $o\check{v}\rho\acute{-}\alpha\chi o-s$ 'end,' 'last piece,' as diminutives of $\check{o}\rho\rho o-s$ (No. 505), and the same relation is borne by the adjectives $\nu\eta\pi\iota-\alpha\chi o-s$, $\mu\epsilon\imath\lambda-\iota\chi o-s$ to $\nu\check{\eta}\pi\iota o-s$, $\mu\epsilon\imath\lambda-\iota\alpha$ (No. 464). $\check{\eta}\sigma\nu\chi o-s$ also (No. 568) comes under this head, though if it belongs to the rt. $\bar{\alpha}s$ it is hard to see how the σ managed to survive. The adverbial formations $\pi o\lambda\lambda\alpha\chi o\hat{v}$, $\dot{\epsilon}\nu\iota\alpha\chi o\hat{v}$ etc. are no doubt of an entirely different kind.

Loss of the sibilant appears to have been combined with softening in a few cases: $\gamma \rho \dot{\nu} - \tau \eta$ 'rubbish' = Lat. $scr\bar{u}$ -ta (neut. pl.) 1, whence scrūtāri, scrūtātor, scrūtiniu-m, γρίπ-ο-ς = scirp-u-s (No. 516 and p. 511). Since the Lat. grad-i seems to be related to the German schreit-en 'stride' (Corssen i2. 209), it is at all events very probable that γράφ-ω along with γρομφ-ά-ς (No. 138) comes from a rt. skrabh 'dig,' which is preserved more intact in the Lat. scrob-i-s 'trench' and scrof-a = γρομφάς, but also no doubt in the Bohem. škráb-a-ti 'scratch,' 'scrawl,' and the OHG. screwon 'incidere.' Greek shows a dislike to an initial $\sigma \kappa \rho$ (Leo Meyer i. 189). It appeared more doubtful at No. 134 b whether γλύφω is to be placed by the side of sculpo, since there is the word glubo as well. Corssen, it is true, derives γλυφ from skulp, and γλαφ (No. 134) from skalp ('Nachtr.' 178). - γνίφωνες καὶ σκυιποί οί μικρά προϊέμενοι καί διδόντες says Aristotle 'Eth. Nic.' iv. f. 51 a. We shall probably be right in holding both names of niggards to be originally identical, and in holding the guttural in the former to be softened, especially as there 704 occur also the forms κνιπό-ς, κνιφό-ς (cp. ChSl. skap-ŭ 'sordidus, 'avarus'). Since again κίμβ-ιξ is another name for a niggard, $\kappa\iota\mu\beta$ must be a fresh variation of the same root. Cp. Pott W. i. 679.

We find change of organ combined with transposition in $\psi \acute{a}\rho$ by the side of the German star ('starling'), Lat. stur-nu-s (No. 521), $\psi \iota - \acute{a}$ by the side of $\sigma \tau \acute{\iota} - \alpha$ (No. 225), where however

¹ Cp. however Clemm 'Stud.' iii. 296 and Joh. Schmidt 'Voc.' 291 ff.

the second group of sounds finds the more decided support in the related languages.

Lastly we may even have more than two affections combined, or from one and the same primary form with a complete group of consonants various forms may proceed each with a different affection. We met with such a case in the rt. cnu with the by-forms $\pi \tau \nu$, $\psi \nu \tau$, $\phi \theta \nu$ (No. 382). As here, $\phi \theta$ and ψ meet also in the (Hesych.) forms διψάρα δέλτος, οἱ δὲ διφθέρα, ψείρει φθείρει, ψίσις ἀπώλεια, and so = φθίσις, ψιθήν ἀπώλειαν, ψινάδες αἱ ρυάδες ἄμπελοι, ψινάζει φυλλορροεί (Lobeck 'Rhemat.' 32). Hence Fick's (i3. 831) comparison of φθέγγεσθαι 'give a sound' with the Lith. speng-ti 'yell,' and the MHG. spah-t 'noise' seems a likely one. To the same class belongs ψα-τα-σθαι (προκαταλαμβάνειν), ψα-τη-σαι $(\pi \rho o \epsilon \iota \pi \epsilon \hat{\iota} \nu)$ which we cannot but connect with $\phi \theta \hat{\alpha} - \nu - \epsilon \iota \nu$ 'anticipate,' especially when we consider the gloss $\phi\theta\alpha$ -τή-ση' φθάση (cp. Bugge 'Ztschr.' xx. 39). Now as we are led from φθυ, ψυ to the rt. spu, so are we led from φθα, ψα to spa, and it looks as if we had this form preserved in the ChSl. words spě-ti 'jacere,' 'proficere,' spě-chu 'studium,' 'celeritas,' and also in the OHG. spuo-an, MHG. spuon 'proficere,' spuo-t 'result.' The common primary idea is that of 'hastening' and 'overtaking.' Perhaps too the Lat. spē-s belongs to the same root, especially as pro-spe-r shows a still closer approach to the Slavonic words, and as the OLat. spē-r-es (acc. plur. in 'Enn. Ann.' 132) and spēr-a-re lead us to a stem expanded by s, which is also to be assumed in the ChSl. spě-chǔ (cp. p. 697). For the ChSl. ch has come quite regularly from s. (Cp. Pott W. i. 387, Fick i³. 829.) Corssen's objections are met by assuming with Fick that 'stretch' in the sense of 'intentio animi' is the transition stage between 'hope' and hurry.' From span, expanded by n comes the Lat. spon-te. Cp. OHG. spanst 'allurement.' - There is further a widely ramifying family of words which shows this phenomenon, which we must examine more closely. The connexion of the phonetically very dissimilar forms δνόφ-ο-ς, γνόφ-ο-ς, κνέφ-ας was recognized by Buttmann 'Lexil.' ii. 266, where however the completely distinct $\nu \epsilon \phi o s$ (No. 402) is wrongly associated 705 with them. As is so often the case, Sanskrit has shown

us here the right starting-point. The primary meaning of all these forms is 'obscurity,' 'darkness.' Now the Skt. kshap f. and kshap-a, Zd. khshap, khshap-an (f.) have the same meaning; a third form kshap-as (n.), under which Bopp 'Gloss.' treats most of the matter belonging here, is rejected by the 'Pet. Dict.' The root we must probably (cp. Benfey i. 617, Leo Meyer i. 367) take to be skap with the meaning 'cover' (Aufrecht 'Ztschr.' viii. 71, Pott ii2. 609). This root appears clearly in the Gk. σκέπ-ω 'cover,' 'veil,' whence σκέπ-η, σκέπ-ας 'cover,' 'protection,' and the derived verbs σκεπάω, σκεπάζω, the adj. σκεπανό-s 'covered,' 'shaded.' The first affection we have to assume is metathesis, by which skap becomes ksap, Skt. kshap, Zd. khshap. The second affection we take to be labialism, which however appears in conjunction with a third, i.e. the aspiration of the second consonant: [spap], psap, \(\psi\angle a\pha\angle a\psi, \psi\angle a\pha\angle a\psi, \psi\angle a\pha\angle a\psi, \psi\angle a\psi\angle a\psi, \psi\angle a\psi\angle a\p ψαφαρό-ς, ψεφ-ό-ς σκοτεινός (Hesych.) ψεφ-ηνό-ς 'obscurus' in Pindar. The transformation of the guttural group to the labial has analogies in the Mod. Gk. e.g. $\dot{\epsilon}\psi\dot{\epsilon}s=\dot{\epsilon}\chi\theta\dot{\epsilon}s$ (Chalkiopulos 'Stud.' v. 361). Between έχθές and έψές we may probably assume an intermediate form $\dot{\epsilon}\phi\theta\epsilon s$. — The rts. φθερ and φθι with the by-forms wep and we just quoted have arrived at their labial in the same way, for the former comes in meaning just as near to the Skt. kshar 'melt,' 'vanish,' kshará-s 'perishable' (Zd. khshar 'flow'), as the rt. φθι does to the Skt. kshi (kshi-nā-mi) 'destroy,' 'corrupt,' $kshi-ti-s = \phi\theta i-\sigma i-s$, kshaja (m.) = $\phi\theta \delta \eta$ 'consumption,' Zd. khshi as a verb, 'destroy,' as a subst. (f.) 'disappearance' (Benf. i. 178, 202). - A third group of forms is most simply explained by the assumption of a nasalized rt. skamp. related to skap as tump is to tup (No. 249). Greek shows a disposition to transpose a nasal, e.g. in $\tau \mu \hat{\eta} - \sigma \iota$ from the rt. τεμ, $\theta\nu\dot{\eta}$ -σκ-ειν by the side of $\theta\alpha\nu$ -είν. In this way we arrive at sknap, with aspiration $\sigma \kappa \nu \epsilon \phi$, a form which, when the σ is knocked off, appears in Homer as κνέφ-ας, and without loss of the σ , but with a weakening of the ϵ to ι , in σκνίφος σκότος, σκνιφή άκρα ήμέρας καὶ έσπέρας (Hesych.). So too Walter 'Ztschr.' xii. 383. With κνέφας we may perhaps put the Lat. crepus-culu-m and the Sabine Crepus-ci

and the adj. creper-u-s 'dubius' (Varro 'L. L.' vi. 5, Paul. 'Epit.' p. 52 M.). Since cn is inadmissible at the beginning of a Latin word the n appears here as r. For this change we have at all events the analogy of the borrowed groma = γνώμων. Corssen's explanation of the Latin word from the root of κρύπτω (Beitr. 407) is not satisfactory, as the vowels do not agree. For Greek, it appears, softening was added to 706 the affections just mentioned. From κνέφας we arrived (p. 535) at γνόφο-ς, as previously from σκνιφό-ς we arrived at γνίφων. The form γνόφο-ς 'darkness,' 'gloom' was in use at all events later — from the time of Aristotle — than δνόφο-ς, a form called sometimes Aeolic, sometimes Doric, occurring from Aeschylus's time onward, but also supported by the Homeric adjective $\delta\nu \phi - \epsilon\rho \delta - \epsilon$ (cp. $io - \delta\nu \epsilon \phi - \epsilon \epsilon$). The change of γ to δ is to be ascribed to the influence of the ν . The same change is to be seen in the Cret. $\delta\delta\nu\delta-\nu = \delta\gamma\nu\delta\nu^{1}$ (p. 535) and in κύδνο-ς κύκνο-ς (Hes.). In the latter case the κ is likewise primitive (No. 32), and the intermediate form with the y is found in the Lat. cygnu-s. Whether ζόφο-s with the related Zέφυρο-s the name of the wind which blows from the quarter called by Homer πρὸς ζόφον, belongs here is doubtful. I know of no analogy for & by the side of &v or yv. And indeed ζόφος has been supposed to be of Semitic origin (Hebr. zāphōn 'midnight region,' Müllenhoff 'Deutsche Alterthumskunde' i. 119). - The astonishing multiplicity of phonetic changes is explained partially at least by the fact that we are dealing with forms belonging to various dialects, no single one of which forms found a home in Attic Greek. - The initial group of the rt. cβεc (σβέννυμι) has experienced extraordinary changes, not only into ζ: ζείνυμι, but even into ξ: ἀποξίννυται άποσβέννυται (Hesych.). I know not how to account for this. In two stems $\pi\tau$ corresponds to a Latin st: $\pi\tau\acute{a}\rho$ - $\nu\upsilon$ - $\sigma\theta\alpha\iota$ =

¹ Ahrens 'Dor.' 109 and Welcker 'Götterl.' ii. 596 distrust this gloss, and prefer to derive the evidently related name of the Cretan 'Αριάδνη from άδ-εῖν. But since the change of δν to γν is unheard of, while 'Αριάγνη occurs on a vase as a by-form of 'Αριάδνη (O. Jahn 'Description of the Munich collection of vases' p. ccv.), phonetically there is more evidence in favour of Preller's translation of the name 'die hochheilige' ('the very holy one') ('Gr. Myth.' ii². 532.)

ster-nu-ere and πτύρ-ειν = sternare in con-sternare, ex-sternare, 'disconcert,' 'startle' (cp. Corssen 'Nachtr.' 115 f., Bugge 'Ztschr.' xx. 37). Whether we ought really to assume a rt. spar here (cp. No. 389), which shifted in Italian to ster, in Greek to psar, ptar, I leave an open question. Van. 1180, 1182.

G. Dissimilation with a view to avoid a like sound in consecutive syllables.

Lobeck's 'Dissertatio de praeceptis euphonicis' ('Paralipp.' 18) contains the following acute remark: 'Graeci haud facile committunt, ut easdem duas consonas in duabus continuis syllabis iterent. Etenim nullum est illis vocabulum 707 simplex et primitivum, quod cum latinis scisco, proprius comparari possit, non ita multa quae cum vernaculis Stillstand, dreidräthig, unausbleiblich.' A few exceptions like προ-πρηνής, τετρά-τρυφο-ς, βοσκέ-σκοντο, μισθοῦ-σθαι, αἰσθέ- $\sigma\theta\alpha\iota$ are mentioned, and their special character discussed. This disinclination to an excess of similarity rests on a disposition, which the language shows in a great variety of ways, to set bounds to the influence of the physical element of the sounds. Excessive similarity produces the impression of stammering and mere jingle. For this reason, not only Greek, but the other related languages as well, content themselves often in a reduplication with one of the two elements that are to be repeated. This was the explanation given at No. 524 of the form άλλήλου-s. The substitution of the corresponding unaspirated consonant for the aspirate: Skt. ba-bhū-v-a, Gk. πέ-φῦ-κα has the same origin. The aspirate is treated here exactly like a group of consonants, of which in like manner only a part is repeated. ba- $bh\dot{u}$ -va π $\dot{\epsilon}$ - $\phi \dot{v}$ - κa are precisely parallel to Skt. da- $dr\bar{a}m$ -a = δέ-δρομ-α. Still the related languages seem not to have arrived

¹ The change of sound made on reduplication I have discussed at greater length in my paper 'Ueber die Tragweite der Lautgesetze,' Ber. d. philol. hist. Cl. d. k. sächs. Ges. d. Wissensch. 1870. Cp. 'Greek Verb' p. 356 ff., Windisch 'Ztschr.' xxiii. 223,

at definite special laws for reduplication before the separation, as is seen especially by the different treatment of groups containing a sibilant even by so nearly related languages as Latin and Greek. In this matter we can distinguish three different methods. Latin leaves the group in the first syllable intact, while it loses the sibilant in the second: ste-t-i, spo-pond-i, sci-cid-i. Conversely Sanskrit retains the sibilant only in the second syllable: ti-shtā-mi (for ti-stā-mi), pa-sparç-a (rt. sparç 'touch'). Even Greek and Latin are not destitute of examples of this kind, like qui-squil-iae = κο-σκυλ-μάτ-ια (No. 114), κα-σκαλ-ίζειν 'tickle,' which Lobeck 'El.' i. 175 connects with σκάλλειν 'dig.' 'bore.' The third course, i.e. that of putting the sibilant alone in the first syllable and the full initial in the second, is adopted in the Latin si-st-o, and it can also be deduced as the regular course in Greek, inasmuch as "-στη-μι, "-στη-κα decidedly point to σ_{ℓ} - σ_{ℓ} η- μ_{ℓ} , σ_{ℓ} - σ_{ℓ} η- κ_{α} . — It is clear however that, in the course of the history of language, softness, or, if we like, weakness was constantly on the increase. Of two initial consonants not only one but both are suppressed. Language contents 708 itself with the simple vowel by way of a rudimentary reduplication. This is the explanation of the apparent coincidence of the reduplication with the augment in the perfect: "-otikται, $\tilde{\epsilon}$ -ζωσ-μαι, $\tilde{\epsilon}$ -κτον-α, $\tilde{\epsilon}$ -γνω-κα by the side of $\pi \hat{\epsilon}$ -πληγ-α, κέ-κτη-μαι. These examples are enough to show that the language was not consistent throughout. - But more remains to be said about the transformation in question. Lobeck justly classes forms like λυπρόκρεως with forms like μακρόκρανος. It is not only identical but similar biconsonantal initials that are avoided in two consecutive syllables. We have here to do, however, not with a mere loss of sound. Whole syllables may become lost, so that it would be more correct to talk of a shortening. The sporadic character of these changes is unmistakeable.

The tendency to dissimilation in the sense discussed above can make itself felt in two directions. Either the first syllable is lightened or the second. The first syllable has experienced a change of this kind in the following words.

— ἔχλα ἡ κίχλα ('thrush') in Hesychius is most simply

explained in this way as a softening of the more usual form. The synonymous κι-χήλη (Aristoph. 'Nub.' 339) shows still more clearly that ki- is a reduplication syllable (cp. Brugman 'Stud.' vii. 314, Van. 256). ἴχλα (cp. ἴχαλη: ἴσκλα, Hes.) is on this point precisely parallel to forms like έ-χλεύασται. — With this ἔχλα Lobeck ('El.' i. 107) associates ὄγχνη 'pear,' ('Od.') by the side of which Hesych. gives κόγχνη. We have at any rate the possible alternative of supposing that κόγ-χνη was the full form. I can find no etymon for it. - Perhaps in the case of δκ-νο-ς we can find one. Benfey ii. 22 assumes an initial F, relying on the form α-οκνο-ς. But this by no means establishes the digamma, as is shown by α-οδμο-ς (rt. όδ No. 288), and ά-ορν-ο-ς (No. 503). ὀκνεῖν is the reverse of τολμαν, ὀκνηρός of τολμηρός, and it occasionally acquires the notion of 'anxiety,' 'fear.' In meaning then δκνείν coincides completely with cunctari. cunctari is evidently a frequentative, which we can refer to a rt. cunc, and this finds its analogon in the Skt. cank (cánk-ē) 'to have anxiety' or 'scruple,' çank-a 'anxiety,' 'doubt.' We may accordingly assume an Indo-Germanic rt. kak, nasalized kank, and refer οκ-νο-ς to κοκ-νο-ς. This comparison is specially interesting inasmuch as we have here to do with an intellectual idea, which is shown to be common to many languages by the community of the root. Whether the physical meaning has survived in the Goth. hah-an 'hang' (Fick i3. 544) in which case haesitare would be the primary notion, I cannot decide. - The rather late form "-πτα-μαι 'fly 'Gk. Verb' p. 108 is related to the poetical agrist έ-πτά-μην (No. 214) as τί-θε-μαι 709 to έ-θέ-μην. No doubt " with the characteristic spiritus asper does duty here for a reduplication. We meet with the same spiritus in εψ-ω 'cook,' by the side of οψο-ν 'relish,' which Pott i1. 233, ii2. 780, Benf. ii. 89 place under the rt. πεπ (No. 630). έψ-ω stands for πεψ-ω and is expanded from the rt. πεπ p. 465 by a determinative σ as αὐς is to αὖξ (cp. p. 64). There are two more noun-forms which undoubtedly belong to the same root, first ôπ-τό-ς 'roast' with its derivatives ὀπτά-ω, ὀπταλέος in spite of their difference of meaning, - οπτό-s, οπταλέο-s being used for 'roast' as opposed to $\dot{\epsilon}\phi\theta\dot{\delta}$ -s, $\dot{\epsilon}\psi\alpha\lambda\dot{\epsilon}o$ -s 'boiled.' In $\pi\dot{\epsilon}\sigma\sigma\epsilon\nu$, which, like $\dot{\delta}\pi\tau\hat{\alpha}\nu$, is

used of the baking of bread, the two uses meet. There can be nothing surprising in the fact that the difference in form was utilised for a further differentiation of meaning 1.— Lastly the forms $\phi \acute{a}\tau \rho a$, $\phi a\tau \rho \acute{a}$ belong here: although they are not so well attested as $\phi \rho \acute{a}\tau \rho a$, $\phi \rho a\tau \rho \acute{a}$ (No. 414) and are now generally replaced by them in good editions, they have been found on inscriptions where ϕa is a shortening of the word (Roehl 'Ind. ad C. I. Gr.' p. 15) and are recognized by grammarians (Hesych., Bekker 'Anecd.' 115, 2a).

It seems not improbable that the second syllable was lightened in $\pi \tau \epsilon - \rho \delta - \nu$ 'wing' The common instrumental suffix -τρο (cp. ἄρο-τρο-ν, λου-τρό-ν) joined to the rt. πετ (No. 214), transposed to $\pi \tau \epsilon$, would give $\pi \tau \epsilon - \tau \rho o - \nu$. We assume that the language dropped the τ in the second syllable to avoid the harsh sound. The Skt. pát-tra-m (by the side of pát-atra-m and pa-tra-m) agrees with the OHG. fed-ara and the Gk. πέ-τρο-ν. Bergk's acuteness has recognized the latter form in the papyrus fragments of Alcman ('Philol.' xxii. 5, 'Poet. Lyr.3' p. 834). In these fragments ὑποπετριδίων occurs as an epithet of ὀνείρων instead of the ordinary ὑπόπτερος 'winged.' From the primary $\pi \tau \epsilon - \tau \rho o - \nu$ then there came on one side $\pi \acute{\epsilon} - \tau \rho o - \nu$ by a lightening of the first syllable, on the other $\pi \tau \epsilon - \rho \delta - \nu$ by a weakening of the second. Osthoff Forschr.' 171 assumes for πτέ-ρο-ν a suffix -ρο, but this does not agree with the use of that suffix. - κοχ-ώνη (No. 70) 'the part from the thighs to the anus' we connected with cox-a, cox-endix and some Sanskrit words, the primary notion of which was that of a hollow, applied to different parts of the body. In any case κόκκυξ, with the grammarians' interpreta-710 tion τοῦ ἰεροῦ ὀστέου τὸ πρὸς τοῖς ἰσχίοις (Lobeck 'El.' i. 171), also belongs here. For κοχώνη itself is interpreted by lερον ὀστοῦν ('coccyx,' 'os sacrum'). Probably then κοχ-ώνη arose out of *κοξωνη and bears to coxa the same relation as that of κορ-ώνη to cor-νu-s, κόρ-αξ. The ξ of the second syllable

¹ The derivation of $l\pi$ -νό-s 'stove' from the rt. $\pi\epsilon\pi$ has been rendered questionable by Joh. Schmidt's discovery of the Old-Prussian *umpni*-s of the same meaning ('Ztschr.' xxii. 192). The two words occur however in remote families of speech and are quite isolated, and I am not so sure as Joh. Schmidt is of their connexion.

would then have here passed into χ , as in $\nu \acute{\nu} \chi$ -ιο-s from $\nu \nu \kappa \tau$ -ιο-s, where we may surely venture to assume an intermediate form * $\nu \nu \acute{\varepsilon}$ -ιο-s, and as in $\acute{\varepsilon} \phi$ -θό-s the ψ of $\acute{\varepsilon} \psi \omega$ appears as ϕ . We saw at p. 702 how the same letters in a different order (sk) were replaced by the same aspirate in $\gamma \lambda \acute{\epsilon}$ - $\chi \acute{\epsilon}$ - $\chi \acute{\epsilon}$ - $\chi \acute{\epsilon}$ (for $\sigma \nu \eta$ - χ - ω), $\pi \tau \omega$ - χ - $\acute{\epsilon}$ -s, $\sigma \mu \acute{\eta}$ - χ - ω , $\psi \acute{\eta}$ - χ - ω , $\psi \acute{\nu}$ - χ - ω . The same theory will serve to explain $\tau \rho \acute{\nu}$ - χ - ω , which we discussed under No. 239 in its relation to $\tau \rho \acute{\nu}$ - ω . In this case the full form $\tau \rho \acute{\nu} \sigma \kappa$ - $\epsilon \iota$ has been preserved in Hesych. and is explained by $\tau \rho \acute{\nu} \chi \epsilon \iota$. In all cases the vowel before this χ which has come from $\sigma \kappa$ is long. It should be noticed that the language elsewhere occasionally admits groups of sound like those we see avoided here: $\tau \iota$ - $\tau \rho \acute{\omega}$ - $\sigma \kappa$ - ω , $\theta \rho \acute{\omega}$ - $\sigma \kappa$ - ω . Here too then we have to deal with no universally applicable linguistic law 1.

H. Sporadic Vowel-change.

At p. 439 ff. we recognized in the preservation of e and o, as opposed to the further weakened Italian i and u, a very old trait of the Greek language. Now is the time for giving the exceptions, and they will be followed by another vowel-change which occurs in isolated instances. We shall be able to be brief here, as the individual cases are mostly self-evident, and have moreover nearly all of them been already discussed from other points of view. See also the collections of Pott i^1 . 3 ff., Christ 25 ff., Leo Meyer i. 115 ff.

¹ On the same principle of 'shortening' is to be explained the loss (where it can be established) of the first of two similarly sounding syllables in Gk. and Latin, treated by Fick 'Ztschr.' xxii. 98 ff. and 371 f., and likewise of formations like τρά-πεζα for *τετρά-πεζα and (acc. to Fick) τρυ-φάλεια (cp. above p. 448). In the case of compounds Lobeck 'Paralipp.' 44 has already noticed the same process: e. g. ἡμέδιμνων=ἡμιμέδιμνων 'C. I. G.' 5773, ἀμφορεύ-s=ἀμφιφορεύ-s, τέτραχμων (Βοεκh τετρᾶχμων)=τετράδραχμων on a Boeot. inscr. 'C. I. G.' 1570 b. Also cp. Angermann 'Die Erscheinungen der Dissimilation' Meissen 1873.

² So important a place has the investigation of the vowels taken of late that since p. 439 was printed there have reached me no less

711 1. 4 AS THE REPRESENTATIVE OF AN ORIGINAL a.

It is extremely probable that in the Italian languages, whenever an original a became i it was through an intermediate e (p. 439). The same course may be conjectured for the limited number of forms which show the same change in Greek. By far the greater number of them have forms with the e-sound as well. The tendency to this softening appears strongest before groups of consonants, the weight of which seems to have robbed the preceding vowel of some of its fulness, in the same way in which we now and then see, e.g. in the Ion. $\frac{\partial \pi}{\partial e} \delta e i = \frac{\partial \pi}{\partial e} \delta e i = \frac{\partial$

Accordingly we find ι as the representative of ϵ before double consonants in the following words. First in eight verbal forms, seven of which are distinguished from other nearly related formations by the addition of a syllable beginning with ν: ἴλλω by the side of εἴλλω, ἐλύω (No. 527), κίρ-νημι by the side of κερά-ω, κερά-ννυ-μι (No. 52), and the Lesb. inf. κέρναν = κιρνάναι Blass 'Hermes' xiii. 383, κτίν-νυ-μι by the side of κτείν-ω, κτά-μεναι (No. 77 b), ὀριγ-νά-ο-μαι by the side of ὀρέγ-ω (No. 153), πίλ-να-μαι 'approach' and πιλ-νά-ω 'make to approach' by the side of πέλ-ας, πελά-ζ-ω, which were discussed at No. 367, πιτ-νη-μι by the side of πετά-ννυ-μι (No. 215), $\pi i \tau - \nu - \omega$, $\pi \iota \tau - \nu \hat{\epsilon} - \omega$ by the side of $\pi \epsilon \sigma - \epsilon \hat{\iota} \nu$ (No. 214), σκίδ-να-μαι by the side of σκεδ-άννυ-μι (Nos. 294, 295), words in which the variation of the vowel is not confined to Greek alone. A similar relation exists between σκίμπ-τ-ω and σκήπτ-ω (No. 108), χρίμ-π-τ-ω and the rt. χρα-ν (χραίνω), στίλ-β-ω and $\sigma \tau \epsilon \rho o - \pi$ (cp. above p. 539). These forms bear to those

than four large books on this subject, of which I only mention (with reference to the note on p. 441) the most systematic: F. de Saussure 'Mémoire sur le système primitif des voyelles dans les langues Indo-Européennes' Leipz. 1879. Two confine themselves mainly to the Teutonic languages.

with the e-sound the same relation as that of the Lat. quinque to the Gk. $\pi \acute{\epsilon} \nu \tau \epsilon$, $\pi \acute{\epsilon} \mu \pi \epsilon$, and that of ting-o to $\tau \acute{\epsilon} \nu \gamma - \omega$. We find groups of consonants containing sibilants in ισ-θι 'be,' from the rt. έc (No. 564) by the side of ἐστί, ἔσται etc., νίσσ-ο-μαι from the rt. vec (No. 432) by the side of νέ-ο-μαι, νόσ-το-ς, ίζ-ω by the side of εδ-os rt. εδ (No. 280), χθιζ-ό-s (p. 619) by the side of $\chi\theta\dot{\epsilon}s$, groups containing ρ in $i\delta-\rho\dot{\nu}-\omega$ by the side of $\tilde{\epsilon}\delta$ ρα rt. έδ (No. 280), λικ-ρι-φίς, λικ-ροί by the side of λεκ-ροί, λέχριο-s (No. 540), οίκτιρ-μό-s, οίκτίρ-μων (cp. the OAttic οίκτίρας 'Gk. Verb' p. 255) by the side of οίκτείρ-ω (Aeol. οίκτίρρω). The length of the ι in ἰμάτ-ιο-ν, the stem-word of which is preserved by Hesych. ἵματα ἱμάτια, is no doubt to be explained 712 by the supposition of an older ίσ-μα for Fεσ-μα (No. 565). Here too then we have two consonants. The length of the t would be accounted for by the principle of compensation, like that of the Ion. είμα and the Dor. γημα. - Similarly χελιδών (No. 187) for χελενδών, χίλιοι, beside the Aeol. χέλλιοι (Ahrens 58) probably belonging to the Skt. sahásra, χῖραλέος 'chapped' perhaps belonging to the Lat. horrere (rt. hors) (Fick i3. 582 ff.). Many cases that belong here have been discussed by Walter 'Ztschr.' xii. 386, and others by Joh. Schmidt 'Voc.' ii. 329 ff.

In the case of the few words too where the ι that has come from α has no ϵ corresponding to it, there are for the most part double consonants,— $\tilde{\iota}\pi\pi\sigma$ -s by the side of $\tilde{\iota}\kappa\kappa\sigma$ -s, where the Italian languages show the ϵ -sound (p. 462), just as we have $\kappa\rho\hat{\iota}-\nu\omega$ by the side of the Lat. cer-no (No. 76), $\hat{\rho}\hat{\iota}\zeta\alpha$ (No. 515) Lat. rad-ix, $\hat{\rho}\hat{\iota}\sigma$ - ν beside $\tilde{\sigma}\rho\sigma$ -s (No. 504), $\sigma\kappa\iota\rho$ - $\tau\hat{\alpha}$ - ω 'hop' (p. 697), which is related to $\sigma\kappa\alpha\hat{\iota}\rho$ - ω as the Lat. sal-t-o is to sal-i-o. The case of the long ι of ' $E\rho\bar{\iota}\nu\hat{\iota}$ -s (No. 495) is the same as seemed probable in that of $\hat{\iota}\mu\hat{\alpha}\tau\iota\sigma\nu$. Here a $\hat{\jmath}$ has fallen out after ν .— $\hat{\sigma}\pi$ - $\bar{\iota}\pi$ - $\epsilon\hat{\upsilon}$ - ω along with - $\sigma\pi$ - $\bar{\iota}\pi$ - α -s (p. 463) with the peculiar weakened reduplication in the second syllable has for its ι the analogy of $\delta\hat{\iota}$ - $\delta\omega$ - μ , $\beta\iota$ - $\beta\rho\hat{\omega}$ - $\sigma\kappa$ - ω , in which the reduplication syllable uses the same vowel, $-\sigma\pi\bar{\iota}\pi\alpha$ s that of $\pi\bar{\iota}$ - $\phi\alpha\hat{\iota}\sigma\kappa\omega$ for the length of the vowel. On $\hat{\sigma}\nu\hat{\iota}\nu\eta\mu\iota$ see p. 715.

The remaining cases are but few in number: κνίδ-η 'nettle' beside the OHG. hnazza and nezila, and κναδάλλειν 'itch' (Fick i³. 537), πίτ-υλο-ς 'the plash of an oar or of drops of water,' probably belonging to the rt. πετ (No. 214) (Fick i³. 659),

whence comes $\pi \iota \tau - \nu \acute{\epsilon} - \omega$. Possibly the ν has here had something to do with the thinning of the vowel, as in ίδρύω, Ερι-νύ-ς and in the Aeolic and Homeric πίσυρες. We might perhaps ascribe the same influence to the ι in $\sigma\phi\iota$ - $\sigma\acute{\iota}$ by the side of $\sigma\phi\acute{\epsilon}$ and in ίδιο-s discussed at p. 635 (cp. ἴσθι, λικριφίς). The variation between οψέ and οψι- in οψι-τέλεστο-ς, οψι-μαθ-ής, οψί-νοο-ς reminds us of Latin forms like beni-gnu-s by the side of bene. Still the origin of the vowel is by no means evident. The old grammarians regarded out used separately as Aeolic (Ahr. 'Aeol.' 80). Conversely we find ε for the ι of ἄγχι (No. 166) in the Homeric compound άγχέ-μαχο-ς. Perhaps both vowels arose by weakening from $\epsilon \iota$ (cp. $\dot{\alpha}\mu\alpha\chi\epsilon\dot{\iota}$). $-i\tau$ - $\alpha\lambda\dot{\delta}$ -s by the side of vit-ulu-s (No. 211) and the Skt. vat-sá-s had perhaps originally a double τ in Boeotian fashion for $\tau\sigma$. — We are compelled anyhow to acknowledge the change of a to i without special reason in σκι-ά, σκί-ρο-ν, σκί-ρο-ς (No. 112), χρί-ω from the rt. ghars (No. 201), in πί-νω by the side of the Aeolic πώ-713 νω (No. 371), in μι-νύ-ω (No. 475) where several related lan-

3 νω (No. 371), in $\mu\iota$ -νύ-ω (No. 475) where several related languages share this weakening, in $\sigma\pi\iota$ -θ- $\alpha\mu\eta$ 'span' from the rt. $c\pi\alpha$ (No. 354) the primary meaning of which is here prominent, and in the related glossematic words $\sigma\pi\iota\delta\eta$ s, $\sigma\pi\iota\delta\iota$ os 'extended'.' For a discussion of the long ι , which we find, in connexion with metathesis, e. g. in $\kappa\rho\bar{\iota}\theta$ - η (No. 76), $\beta\rho\bar{\iota}$ - $\theta\omega$ (p. 475), $\rho\bar{\iota}\pi$ - $\tau\omega$ (No. 513), $\tau\rho\bar{\iota}\beta\omega$ (p. 223), $\sigma\phi\rho\bar{\iota}\gamma\dot{\alpha}\omega$ (p. 700), in the place of an original a, see Delbrück 'Studien' i. 2, 131 ff.

In non-Attic dialects the phenomenon is far commoner. We often find in Aeolic, as in Doric, an ϵ replaced by ι before vowels, e. g. Boeot. $i\omega\nu = \dot{\epsilon}\omega\nu$ (rt. $\dot{\epsilon}c$), Cypr. $\kappa\alpha\tau - \dot{\epsilon}-\theta\iota - j\alpha\nu = \kappa\alpha\tau - \dot{\epsilon}-\theta\epsilon-\nu$, Lacon. $\sigma\iota\dot{\alpha} = \theta\epsilon\dot{\alpha}$, though in this case both sounds have not seldom arisen from an older $\epsilon\iota$, as in $\chi\rho\dot{\nu}\sigma - \iota\sigma - s$, Ep. $\chi\rho\dot{\nu}\sigma - \epsilon\iota\sigma - s$. The ι is alike Doric and Ionic in $i\sigma - \tau i\alpha$, Ion. $i\sigma - \tau i\eta = \dot{\epsilon}\sigma - \tau i\alpha$ (No. 610), again, that is, before a double consonant, as also in the Cyprian $\pi\iota\lambda - \nu\dot{\epsilon}-\nu$ $\phi\alpha\iota\dot{\epsilon}\nu$ (Hesych.), which is undoubtedly related to $\pi\epsilon\lambda\dot{\epsilon}-s$, $\pi\epsilon\lambda\dot{\epsilon}-s$, $\pi\epsilon\lambda\dot{\epsilon}-s$ (No. 352). The Cyprian dialect (cp. M. Schmidt 'Ztschr.' ix. 290 ff.) shows the softening

¹ Bréal 'La mythe d'Oedipe' ('Mélanges de Mythologie et de Linguistique' p. 169) assumes a change of a to i in order to refer ' $1\xi i\omega v$ to an assumed $Aksh\bar{\imath}van$, supposed to mean 'Car-man,' 'Wheelman,' i. e. the sun-god (No. 582). Cp. however No. 24 b.

to a still greater extent. Here and in the Arcadian dialect of Tegea (Michaelis 'Jahn's Jahrb.' 1861 p. 591) the preposition $\dot{\epsilon}\nu$ occurs as $\dot{i}\nu$ and, as in Latin, stands for $\dot{\epsilon}\dot{i}s$ as well (No. 425). To the forms in which ι has taken the place of $\dot{\epsilon}$ the Paphian $\dot{t}\gamma\gamma\iota\alpha$: $\dot{\epsilon}\dot{t}s$ (Hesych.) no doubt belongs. We may assume a form $\sigma\iota\gamma$ - $\gamma\iota\alpha$, which would then stand for $\sigma\epsilon\gamma$ - $\gamma\iota\alpha$. The stem is that discussed at No. 599, preserved in the Latin sem-el, sim-plex, and the diminutive sin-g-uli. The γ of $\dot{t}\gamma\gamma\iota\alpha$ may stand for κ . Perhaps $-\iota\alpha$ is the same suffix as occurs in un-c- $i\alpha$ (cp. on No. 445), though if so we should certainly have expected $\dot{t}\gamma\gamma\dot{t}\bar{\alpha}$ in Greek.

2. v THE REPRESENTATIVE OF AN ORIGINAL a.

The softening of an original a-sound to the duller v might be shown to have extended over about the same range as that into ι just discussed. As there ϵ was the intermediate step between a and i, so here o comes between a and u. And in fact the v here to be discussed very often has a corresponding o either in the dialects of Greek itself or in Latin. But since the Gk. v is a proportionally late sound, it seems probable that it was always immediately preceded by the fuller u-sound, 714 and that consequently the series in this case was the following: a, o, u, ü. It is only when so comprehended that this shifting of the vowel is seen in its true character, i. e. as a dulling of the sound. In complete accordance with this is the fact that the Aeolic dialect, which, like the Italian languages, and most unlike Ionic, shows in its various branches a very old dulling of its vowels, is specially prone to this particular change. I have discussed this point at greater length in my essay 'Zur gr. Dialektologie' 'Nachr. d. Gött. Ges. d. Wissensch.' Nov. 1862. Compare also Leo Meyer i. 121. Schleicher 'Compend 3.' 59 justly condemns the attempt at explaining every v by the supposition of forms with Fa. It is only where, as in the case of γυνή, Boeot. βανά, Goth. qvinô (p. 479), there are clear indications of this group, that we can venture to assume $F\alpha$ as preliminary to v.

In this change too we ought certainly to regard the adjoining consonants as instrumental. The nasals and the sounds ρ Vol. II. B b

and \(\lambda\), in the case of which we find the greatest variation in the neighbouring vowels, come in for the greatest share of consideration here, and among the explosives, as Sonne 'Ztschr.' x. 130 remarks, specially the gutturals. Here too we must refer to Joh. Schmidt's exhaustive investigation ('Voc.' ii. 333 ff.). There are but a very few word-stems which have v in the place of a consistently throughout all their ramifications. Perhaps the only cases are λύκο-s by the side of the Indo-Germanic varka-s (No. 89), and Lat. lupu-s, uopμύρ-ω (No. 477) by the side of the Skt. mar-mar-a-s, μύλη, μύλo-s by the side of molo (No. 481), μύρ-ο-ν 'salve,' μύρειν, μύρεσθαι 'flow,' perhaps belonging to the Goth. smairthr 'fat,' ON. smjörr 'butter' (Fick i3. 836), OIr. smir 'marrow,' vú by the side of the Skt. nak-ti-s and the Lat. nox (No. 94), ξύν, σύν, discussed in its relation to con-, cum on p. 544, ovo by the side of the Skt. nakhá-s (No. 447), πύξ, πυκ-ινό-ς (No. 384), cp. Lat. pug-nu-s, by the side of the rt. nak, nar (No. 343), where the difference of vowel is attended by a modification of the meaning, φρύγ-ω (aor. p. έ-φρύγ-ην) by the side of the Indo-Germ. bharg (No. 162), which is discussed along with χρύσό-ς (No. 202), βρύχάομαι 'roar' (= Skt. barh 'roar,' of elephants, and the Low Germ. bölken), τρύπάω (No. 239) discussed by Delbrück 'Stud.' i. 2, 136.—Elsewhere the variation occurs only in isolated words. By the side of dyeipw (cp. gre-x Van. 209), άγορά we have the Acolizing παν-ήγυρι-ς and άγύρ-τη-ς. We may learn how widely the dialects diverged in this stem from Hesychius's glosses dyappies άθροισις (i. e. άγερ-σι-s), άγυρι-s' σύνοδος, άγωρείν συναθροίζειν, to say nothing of words which we have good grounds for suspecting. — γῦρ-ι-ς and γρῦ were 715 discussed under No. 130 along with the words coming from the st. gar. — κύκλο-ς and κίρκο-ς (No. 81) both correspond to the Skt. Kakrá-s, as too we find an older by-form καλινδέω as well as κυλινδέω. - By the side of ὄνομα (No. 446) there have crept into ordinary Greek dv-ώνυμο-ς (Ep. νώνυμν-ο-ς), συν-ώνυμο-ς which resemble the Acol. and Dor. ovuna. Perhaps dissimilation was the object of the change, though in such cases as ὅτοβο-ς and ὑψόροφο-ς dissimilation failed to produce any effect. — By the side of the widely-spread suffix -τορ, nom. -τωρ we find μάρ-τυρ (No. 466), the suffix of which reminds us of

the similar dulling in the case of the Lat. datū-ru-s by the side of da-tor and the Skt. gen. abl. matur for *matars. - To these we may also add the v of $\Delta \epsilon i \pi \acute{a} \tau \nu \rho o - s$ discussed on p. 617. — Perhaps σκύφος 'vessel,' 'goblet,' is only a by-form of σκάφος (No. 109). — σπυρ-ί-ς 'basket' (p. 503) is probably related not only to the Lat. spor-ta, sport-ula but also to σπείρα (Old Att. ΣΠΕΡΑ) 'ball of thread' and σπάρ-το-ν 'string,' Lith. sparta-s 'band' (under No. 389), so that the common idea is that of 'winding.' — Perhaps πύλη 'door' is the fem. of πόλο-s 'pivot,' 'pole' from the rt. πελ 'turn,' discussed on p. 470. — There is no doubt that the old word πρύ-τανι-ς is connected with πρό (No. 380), even though we should choose to follow Ahrens 'Aeol.' 84 in rejecting the reading πρότανις in a Lesbian inscription. The suffix is related to that of έπηε-τανό-s (No. 585) and the Lat. diū-tinu-s as the Lat. humili-s is to the Gk. χθαμαλό-s. - φύρκος τείχος and φούρκος. οχύρωμα (Hesych.) certainly belongs to the rt. φρακ (No. 413). Cp. Joh. Schmidt 'Voc.' ii. 333. — It is very questionable on the other hand on the score of formation and meaning whether, in spite of what Misteli says ('Ztschr.' xvii. 173), πρύμνα 'puppis,' πρυμνό-s 'extremus' are to be referred to πρό, while there can be no doubt that they are connected with πρέμνο-ν 'root' or 'foundation,' and perhaps with πέρ-ας (No. 357).— The same relation is borne by the Homeric $\pi\rho o - \theta \in \lambda - \nu - \mu\nu o - s$ (No. 316) 'from the very ground,' and the plural substantive θέλυμνα in Empedocles, to Hesychius's θέλεμνο-ν. We may perhaps regard these and other Homeric words as real Aeolisms, of which there are by no means few in the Iliad and Odyssey, and so explain ὑπό-βρυχ-ο-ς, ὑπο-βρύχ-ιο-ς, περι-βρύχ-ιο-ς (Soph. 'Ant.' 336) 'deluging,' by the side of βρέχ-ειν 'wet' (No. 166 b), δια-πρύσιο-ς 'penetrating,' by the side of διαμ-περ-ές, certainly πίσυρ-ες, Lesb. πέσσυρ-ες (p. 488), ἄμυ-δι-s (No. 449), ἄλλυδις, which we have other means of proving to be Aeolic, the very old ἀμύμων (No. 478), due perhaps to the traditional dialect of the Aeolic bards, by the side of μῶμο-ς, which we shall not follow Hugo Weber ('Philol.' xvi. 712) in connecting with ἀμύνω. I also class alσυ-μνή-της (θ 258) and the proper name Alσυμνο-ς (Λ 303) in 716 the same list. The former must stand for αίσο-μνή-τη-ς and

mean originally 'the man who is mindful of the aloa' (No. 569), 'the equal share,' who is careful μή τίς οἱ ἀτεμβόμενος κίη ίσης. Compare μνήσασθε δὲ θούριδος άλκης, μνήμονα φόρτου. This etymology, given among others even in the 'E. M.,' is certainly simpler than Döderlein's from ὑμνεῖν ('Glossar.' 170) in its original meaning of 'weaving.' - Perhaps we may reckon among these Aeolisms the Homeric πύμα-το-ς 'the last,' which is related to the Osc. pos-mo-s 'the last,' recognized by Ludw. Lange ('Die osk. Inschr. der tabula Bantina' p. 63), as έβδό-μα-το-ς is to εβδο-μο-ς. πύ-μα-το-ς then stands for ποσ-μα-το-ς like έ-μεναι for έσ-μεναι and is to be referred to the same st. pas, which we find preserved in the Skt. paç-ka-s 'behind,' 'later,' paç-ki-má-s 'the last,' in the Zd. pac-ca (adv.) behind, pac-ne (prep. c. acc.) behind, in the Lat. pos, post, post-eru-s, postrē-mu-s, po-ne, in the Umb. pus. pust, pus-tru, and in the Lith. pas-kùi (adv.) 'later,' pás-k-ui (prep.) 'behind,' 'after,' and hence is an isolated remnant of a family of words which has spread widely elsewhere. Cp. also πύννος (or πύνος) ὁ πρωκτός Hesych. (Fick i3. 672). - The Homeric έπι-σμυγ-ερώς 'piteously,' 'woefully' probably belongs to the OHG. smāhi 'small,' 'slender,' and so to a rt. smak from which Fick i3. 835 also derives σμικ-ρό-ς (above p. 693).— $\beta \nu \theta$ -6-s, $\beta \nu \sigma \sigma \delta$ -s by the side of $\beta \alpha \theta$ - ν -s, $\beta \epsilon \nu \theta$ -os are completely isolated. Cp. above p. 473.

The conditions under which ν takes the place of an α -sound in Lesbian Aeolic are discussed by Ahrens 78, 81 ff. Even Boeotian, though elsewhere averse from this change, takes the same course at all events in the treatment of the diphthongs α and α , e.g. in $f\bar{\nu}\kappa\sigma$ -s = $f\sigma\bar{\nu}\kappa\sigma$ -s, $\delta\dot{\alpha}\mu\nu$ = $\delta\dot{\eta}\mu\dot{\varphi}$. The Tegeatic and in part Cyprian forms $\dot{\alpha}\pi\dot{\nu}$, $\dot{\alpha}\lambda\lambda\nu$, $\kappa\alpha\tau\dot{\nu}$ (Michaelis 'Fleckeisen's Jahrb.' 1861 p. 591) completely agree with Lesbian Aeolic. We might arrive at more exact views on the relation of the different dialects to each other from a study of proper names, for some show this very change of vowel, e.g. 'E $\dot{\varphi}\dot{\nu}\rho\alpha$ (cp. $\dot{\epsilon}\dot{\varphi}o\rho\sigma$ s) from the rt. $f\sigma$ p, the 'Watch' (No. 501), the Corinthian $\Sigma\dot{\epsilon}\sigma\nu\dot{\varphi}\sigma$ s (p. 512), whose very name stamps him as $Alo\lambda\dot{\epsilon}\delta\eta s$, $\Sigma\tau\dot{\epsilon}\nu\dot{\epsilon}-\kappa\lambda\alpha\rho\sigma$ -s, i. e. $\sigma\tau\dot{\epsilon}\nu\dot{\epsilon}-\kappa\lambda\eta\rho\sigma$ -s (cp. $\sigma\tau\dot{\epsilon}\nu\sigma$ - $\chi\omega\rho\dot{\epsilon}\alpha$) in Messenia, $Z\dot{\alpha}\kappa\nu\nu\theta\sigma$ -s (p. 617), words which may be quoted as prominent examples of this change of vowel.

(3) and u interchanged.

These two vowels are phonetically not far apart. The older grammarians were very ready on this account to hold them as nearly equivalent etymologically, a mistake against which 717 the comparative study of languages has uttered warnings from the beginning. For all this we must not absolutely deny all connexion between the two.

The peculiar sound of the vowel v is clearly the ground of the objection which, though, as γλυκύ-s shows, it was not absolute, the Greeks nevertheless felt to the repetition of v in two consecutive syllables. In such cases v is often replaced by o: κο-χύ πολύ, πληρες (Hesych.) from the rt. χυ χέω (No. 203), μορ-μύρ-ω (Νο. 477), πορ-φύρ-ω (Νο. 415), κόκ-κυξ (Νο. 66). This course seems the older one. It probably dates from the time when instead of the thinner v the fuller u was still heard. In view of this explanation we may compare the substitution in the Cyprian dialect of o for v. There is abundant evidence of this change, which is discussed by M. Schmidt 'Ztschr.' ix. 306, and it is no doubt to be regarded as a change not so much from v as from the older u to the related o-sound. The Paphian θοράνας έξω, for which M. Schmidt is probably right in reading $\theta \circ \rho \acute{a} \nu \delta \iota s$ (= $\theta \acute{\nu} \rho a (\epsilon)$, is thus exactly parallel to the Lat. foras (No. 319), and ἰγκαφότευε = ἐγκαταφύτευε to the Lat. fo-re (No. 417). No trace of this peculiarity is to be found in the inscriptions. — The other course is to represent ν by ι , which was done most clearly in $\phi \hat{\iota} - \tau \nu - s$, $\phi \iota - \tau \hat{\nu} - \omega = f \iota - t \iota - o$ from the rt. qu (No. 417). It is due no doubt to this objection to the repetition of v that in Greek, where $-v\lambda_0$ is a common diminutive suffix, the Lat. mu-tilu-s is represented by μί-τυλο-s, while the form μύτιλο-ς is also to be found in Hesych. with a kindred meaning, and the name of the town has both forms, Μυτιλήνη and Μιτυλήνη. It is not quite clear what the origin of the word is, though it seems natural to connect it with μιστύλλω and the rt. μι μινύ-ω (No. 475), in which the ι, as we saw, comes from an older $a = \psi i\theta - \nu \rho o - \varsigma$ in its relation to ψύθ-os was discussed on p. 530. — The converse change, that of ι to υ, appeared to us probable in κι-κύ-ω (ταχύνω) under No. 57.

Besides these there are but few instances of the interchange of and v. Four forms, which evidently come from stems in v. have this in common, that their vowel becomes a when followed by another vowel: δρί-α (pl.) 'bushes,' belonging to δρῦ-ς (No. 275) explained by Joh. Schmidt 'Voc.' ii. 331 as from * διρ F-o-ν (cp. δόρυ), θί-ασο-ς 'rout,' which cannot be separated from the θυιάδες and consequently belongs to the rt. θυ (No. 320), with the same suffix which meets us in πέτ-ασο-ς 'hat' (No. 215), and is established by Indic analogies as well by Aufrecht on Uggvaladatta 271, σί-αλο-ς 'hog,' a kind of diminutive from σῦ-s (No. 579), and ὑπερ-φί-αλο-s 'overbear-718 ing,' which, along with Aeschylus's ὑπέρφευ and the commoner ὑπερ-φυ-ής, we follow Buttmann 'Lexil.' ii. 213 in deriving from the rt. ou (No. 417) in the sense of 'over-grown,' 'luxuriant.' There is a different relation of sounds in the evidently reduplicated $\pi \epsilon \mu - \phi \iota \xi$ (st. $\pi \epsilon \mu - \phi \hat{\iota} - \gamma$) 'breath' (by the side of $\pi \in \mu - \phi i - s$ $\pi \in \mu - \phi i \delta - o s$), which probably belongs to No. 652 (p. 509). We find besides in a few noun-formations like όλι-βρό-ς by the side of lubri-cu-s (No. 544), μόλιβο-ς, μόλι- $\beta\delta o$ -s by the side of $\mu\delta\lambda\nu\beta o$ -s, $\mu\delta\lambda\nu\beta\delta o$ -s (No. 552) and in a few roots like λύγ-o-s by the side of liga-re (No. 149), λιφ by the side of the Lat. lub-et, lib-et (No. 545) and the Skt. mid by the side of μυδ (No. 479) a variation between i and u extending beyond the region of Greek, though we cannot, as in the cases discussed on p. 58, explain the variation to be a double series of forms with a differentiation of meaning. The variation between u and i in the derivative termination $-v_{\chi o-s}$ ($-\iota_{\chi o-s}$) is discussed by Ahrens 'Rhein. Mus.' xvii. 362, where he treats specially of Μούνιχο-s by the side of Μούνυχο-s, Μουνιχία, Μουνιχίων, Μόριχο-s by the side of Μόρυχο-s and similar proper names. But I cannot agree with the same scholar in the free use he makes of this change of sound ('Philol.' xviii. 210) in order to explain mythological names. — With reference to the dialectic change of v to ι which we meet with in Lesbian Aeolic e. g. in ἴπερ, and among the Cyprians e.g. in ἰμίτραὸν = ὑπομίτρασον, we may probably decide that it is a tendency to that Itacism, which finally led the Greeks universally to identify and v completely. The converse of this change we meet with in the one isolated instance of the Cretan Υππάγρα, 'Υππασιά ('C. I.' 2554, 106), which clearly belong to iππο-s (Voretzsch p. 27), though, to be sure, this was a word in which there was originally an a.

I. Vowels prefixed and inserted.

The extreme readiness of the old grammarians to assume that the various vowels had been prefixed or inserted, in order to arrive at desired etymologies, has been replaced by a proportionate disinclination on the part of the linguistic science of the present day to admit the existence of elements which are foreign to the significant body of the word, and owe their existence to convenience of articulation or the preference for certain conjunctions of sounds 1. In view of the fact that 719 words, when once fixed in form at an early period in the life of language, show no further growth in their significant parts, but rather decay, we shall find good reason to be very careful in making such assumptions. The prothesis of consonants, e.g. of an s before consonants of the most different kinds. a process which several good scholars still think is to be allowed, is probably not to be established for a single Greek word. Wherever we find a word with two forms of consonantal initial, one full and the other meagre, we have good grounds for assigning the priority to the former. At the most the only letters that we can call prefixed are the parasitic q and d, which, as was shown at length above, are produced naturally before v and j even when initial. This prothesis however, if carefuly examined, is really an affection of single consonants. In the middle of a word too auxiliary consonants like the δ in $\dot{\alpha}\nu$ - δ - $\rho\dot{\delta}s$, and the β in $\mu\epsilon\sigma$ - $\eta\mu$ - β - $\rho\dot{\epsilon}\alpha$ are confined to a small circle. It will be readily seen that here too these sounds do not make their way into the body of sound as a foreign element, but are developed as natural neighbours from the preceding sounds, in the effort to connect

¹ Pott ii². 394 says: 'It needs no great sharpness to explain such vowels as meaningless prefixes.' But even Pott, though describing the vowel in many cases as 'obscure,' now and then acknowledges the 'possibility' of prothesis.

these with those which follow. On the other hand the vowels hold in general a more subservient position in language. It is generally recognized that they occasionally introduce themselves at the beginning and in the middle of a word, or, to speak more exactly, result from the semivocalic sound attendant on certain consonants ¹. It only remains to distinguish more exactly the conditions and the range of this phenomenon in Greek, and in so doing to insist that this process is to be re720 garded as nothing more or less than a purely physical one, and is hence to be explained, like any other of its kind, physiologically.

1. EVOLUTION OF A VOWEL AT THE BEGINNING OF A WORD.

The old grammarians called the prefixing of a sound $\pi\rho\delta\sigma$ - $\theta\epsilon\sigma\iota s$. Lobeck uses the word in the sense they attached to it in the discussion in the first chapter of his 'Elementa pathologiae,' 'De prosthesi et aphaeresi.' Pott, who discusses this question at length ii¹. 125 ff. and returns to it ii². 384 f., uses the word prothesis, which is more apt, and for this reason we have followed him in so doing, and call vowels thus arising 'prothetic vowels.' The frequency of the phenomenon, espe-

1 The whole of our present subject is treated with great learning and ingenuity by Joh. Schmidt in his 'Zur Geschichte des indogermanischen Vocalismus' Part ii. He there advocates the use of the Indian term Svarabhakti, that is 'fragmentary vowel' ('Vocalbruch') 'fraction of a vowel' ('Vocaltheil') for the insignificant vowel which is produced by a liquid or nasal, but can develope into an 'independent vowel.' Apart from the fact that the Indians only used this term for a vowel sound developed after r and l, though it is clear that we must treat as one both this and the vowel which is developed before these and other sounds (Rig-Veda-Prātiçākhja' edited by Max Müller p. xii.) I do not see why we should diversify our grammatical terminology by this outlandish word. 'Vocalentfaltung ('the evolution of a vowel') is a more exact and intelligible term for the same thing. It is the translation of the Greek ἀνάπτυξις. Cp. Crameri 'Anecd. Oxon.' i. 63, 13 τὸ πνύω κατ' ἀνάπτυξιν γίνεται πινύω ἔνθεν τὸ πινυτή. — In the beginning of a word, at all events, a vowel so produced apparently goes beyond its proper province, which is that of continuous sounds.

cially before double consonants, but also before simple liquids and nasals and before the digamma (p. 578 ff.), is characteristic of Greek and distinguishes it in many cases from Latin. But analogies from related and non-related languages are to be found in abundance. The most familiar instance is the prefixing of a vowel of this kind in the Romance languages, for which see Diez 'Gr.' i2. 224 ff. Forms like the Spanish estar = stare, Provenc. estable and istable = stabulum have precedents in late Latin, according to Corssen (i¹. 289, ii². 286, 'Ztschr.' xi. 341) since the fourth century: istatuam, ispirito, Isticho = Sticho 1. Diez adduces similar forms with e and i from Basque and Hungarian, with y from Cymric, Pott from Arabic, Persian and Ossetic. On prothetic vowels in Slavonic cp. Miklosich 'Lex.' pp. 1 and 459. Lithuanian too shows forms like iszkadd = Germ. Schade ('injury'), iszkald = Germ. Schule ('school'), and even Vedic Sanskrit: i-raģ-jā-mi = rego (rt. rag No. 153), i-radh 'seek to win,' by the side of rādh. In Armenian an a or e is evolved before every initial r (Hübschmann 'Ztschr.' xxiii. 8). In Ossetic, a, the heaviest of all the vowels, is employed for this purpose. Bopp 'Vgl. Gr.' i2. 121 quotes several instances in which metathesis has occurred in addition: artha 'three,' cp. Skt. trajas, arfug 'eyebrow,' i.e. Skt. bhru-s and the Gk. δφρύ-ς (No. 405) which arose in the same way. In the Sicilian dialect too, as Wentrup ('Beiträge zur Kenntniss der Sic. M.' p. 154) shows, an a is 721 constantly prefixed, which, e.g. in aruta = Gk, $\dot{\rho}\nu\tau\dot{\eta}$ is not the remains of a preposition, but must be a purely phonetic element. The two analogies last mentioned have a special interest for the student of Greek, inasmuch as here it is just the fuller vowels α , o which are used by the side of ϵ as prothetic vowels in preference to others. The Greek forms that

Lachmann on Lucret. 231 shows how this parasitic *i*, corrupted by copyists even into *in*, *hi*, *hy*, and occasionally replaced by *e*, became the source of numerous errors in our manuscripts. Bekker 'Hom. Bl.' i. 134 calls attention to this prothesis with reference to Greek words. Max Müller ii. 194 presents us with many similar phenomena from various sources, specially from Celtic. Cp. Zeuss 'Gr. Celt.' p. 120 and Terrien-Poncel 'Du langage' (Paris 1867) p. 64.

belong here have been especially discussed by Savelsberg and Crecelius in Hoefer's 'Ztschr.' iv., by Christ p. 19, 33, by Leo Meyer i. 220, so that no more than a short review of the subject will be necessary here. Since this kind of vowel arises naturally from the 'voice' inherent in all sonant consonants, the particular shade of the sound, so to speak, is very changeable. Accordingly we have instances of a variation between different vowels, even in one and the same root, e.g. $\dot{\alpha}$ - $\mu\dot{\epsilon}\rho\gamma$ - ω and $\dot{\epsilon}$ - $\mu\dot{\epsilon}\rho\gamma$ - $\nu\nu$ - $\mu\iota$ (No. 151), $\dot{\epsilon}$ - $\sigma\tau\alpha\phi$ - $\dot{\epsilon}$ -s (Athen. iii. 105) = \dot{a} - $\sigma\tau\alpha\phi$ - \dot{i} -s (No. 219), \dot{a} - $\tau\rho\dot{\nu}$ - ν - $\omega\nu$ $\dot{\epsilon}\gamma\epsilon\dot{i}\rho\omega\nu$ (Hesych.) by the side of δ-τρύ-ν-ω, with which Lobeck 'El.' i. 81 connects also the proper names 'A-τρεύ-ς and 'O-τρεύ-ς, which would accordingly mean 'inciter.' Pott ii2. 426 suggests 'interritus' (rt. τρες) as the meaning of 'A-τρεύ-ς, which would thus = ά-τρεστο-ς. Similarly 'C. I.' No. 6280 1. 18 άτρηες άναγκαί. Related words will be found above at No. 244. There are good grounds for Christ's view (19) that the shade of the prefixed vowel is generally decided by the following one, hence we have α in α-σταχ-υ-ς (No. 219), α-σπάλ-αξ (No. 106), ά-σπαίρ-ω (No. 389), δ in δ-νο-μα (No. 446), δ-μόργ-νυ-μι, $\dot{\delta}$ -τρύν-ω, $\dot{\epsilon}$ in $\dot{\epsilon}$ -χθ $\dot{\epsilon}$ s (No. 193), $\dot{\iota}$ in $\dot{\iota}$ -κτ $\dot{\iota}$ -s ('a kind of weasel') by the side of Hesychius's KTis. Similarly in Zend we find occasionally the vowel of the root prefixed to an initial r: i-rith for rith, u-rud for rud (Schleicher, 'Comp.3' 50, Justi 359, 18). It must be admitted though that there is no consistency in Greek, as is shown by ά-μέλγ-ω, the Aeolic ἄ-σφι = $\sigma \phi_i$, $\delta - \lambda_i \sigma - \theta \epsilon \hat{\imath} \nu$, $\dot{\epsilon} - \lambda_{\alpha \chi} - \dot{\nu} - s$ (No. 168).

A prothetic vowel precedes several consonants in the following cases, from which we have excluded all of doubtful etymology. The vowel appears most frequently before groups containing a sibilant, as in ἀ-σκαρ-ί-ζω¹ 'hop,' by the side of the synonymous σκαίρω, σκαρίζω and σκιρ-τά-ω (p. 712), ἀ-σταφ-ί-ς 'raisin,' by the side of σταφ-ί-ς (p. 213), in ἄ-σταχυ-ς 'ear of corn' (B 148), more commonly στάχυ-ς, which must be expanded from the rt. στα (Fick i³. 820). — On ἀ-στήρ, ἀ-στράπ-τ-ω, ἀ-στραπ-ή by the side of στεροπ-ή

¹ ἀσκαίρω seems to have come into vogue only from a false reading in Quint. Smyrn. v. 495, where Köchly writes μέγα σκαί-ρουσι.

cp. No. 205. - Lobeck 'El.' i. 16 is probably right in regarding ἀστρηνές · δύσθετον, σκαιόν, ὀξύ (Hesych.) as identical 722 with στρηνές for which also, among other meanings, that of όξύ is given. If we take 'hard,' 'rough' to be the primary meaning, it becomes probable that strenuu-s and the words discussed under No. 222, $\sigma \tau \epsilon \rho - \epsilon \delta$ -s etc., are also related. — The Thessalian name of the starling, ά-στρα-λό-s was mentioned at No. 521. — The Homeric ά-σπαίρ-ω 'quiver' bears to the later σπαίρ-ω (No. 389), α-σπάλ-αξ 'mole' (Plut.) to σπάλαξ (No. 106) and ά-σπάραγο-ς 'asparagus' to the Zd. cparegha (p. 503) the same relation, that $\hat{\alpha}$ - $\sigma\kappa\alpha\rho$ -i- $\zeta\omega$ does to $\sigma\kappa\alpha\rho$ -i- $\zeta\omega$. — Less evident is the relation of α-σφάραγο-ς 'gullet,' 'wind-pipe' to σφάραγο-ς 'noise' (No. 156), while the Lesbian Aeolic pronominal forms \check{a} - $\sigma\phi\iota$, \check{a} - $\sigma\phi\epsilon$ (Ahrens 125) = $\sigma\phi\iota$, $\sigma\phi\epsilon$ are among the most transparent instances of prothesis. Of entirely the same nature is the α of $\alpha - \sigma \sigma \alpha = \tau \iota \nu \dot{\alpha}$, which comes from an older ά-τjα (cp. p. 490). Ahrens ('Formenl.' p. 41) has tried to explain the a to be the result of a mistake, supposing e. g. ὁποί ἄσσα to have arisen through a mistaken division of the words from $\delta \pi o i \acute{a} \sigma \sigma \alpha$ ($\sigma \sigma \alpha = \tau \iota - \alpha$). But this is opposed by the fact that in Attic Greek ἄττα occurs after other vowels as well, e.g. Plato 'Phaedo' p. 60 e δη άττα, and 'Theaet.' p. 145 c γεωμετρίας άττα, and who will believe that a word existing in the Attic period owed its existence to a pure blunder? Even the ancients were so far puzzled by the à that some grammarians felt compelled to write aooa, that is they distinguished the indefinite here from the indirect interrogative only by its special use (Lobeck 'El.' i. 142). To suppose prothesis is the simplest solution of the difficulty. - α-φλαστο-ν is no doubt correctly connected by Fick i3. 699 with the Skt. bhrshti-s 'corner,' 'edge,' Lat. fast-ig-iu-m and OHG. brort 'fore-part of a ship.' - The relation of ό-σφύ-s 'hip' to the synonymous Skt. sphik' was treated of on p. 699 along with the by-forms ψόα, ψύη 'region of the loins.

There are at any rate two certain instances of the prothesis of a vowel before the double consonants ξ and ψ. One, it is true, is a borrowed word. Lobeck 'El.' i. 144 says 'έξατράπης et ἐκσατραπεύειν, quae in Inserr. et libris

leguntur, excusationem peregrinitatis habent.' Since Hesych. has preserved the form ζατράπης as well, it appears that we have here different attempts to reproduce the foreign initial. According to Benfey ('Altpers. Keilschriften' p. 18) the Persian form was khshatra-pa-van 'kingdom's lord;' but it is perhaps the shorter form khshatra-pā which underlies the Gk. word (Pott W. i. 228).—The same sound appears before ψ in έψία or έψία 'game,' along with the Homeric έψιάασθαι 'play,' from which we cannot separate ψιάζειν (Hesych.) ψιάδδειν (Aristoph. 'Lysistr.' 1304).

123 It is but seldom that a vowel is employed to support a double mute. The only certain instances are *l-κτί-s* and *è-χθέs*. The former denotes a kind of weasel, which is called κτί-s in Hesych., and in the derived adjective κτίδ-εο-s 'of weasel's skin' (Κ 458), appears with a consonantal initial. On *è-χθέs* by the side of χθέs we need only refer to p. 675. I am inclined also with Fick ('Ztschr.' xxii. 383) to refer *l-χθύ-s* (see Bugge 'Bezzenb. Beitr.' iii. 102) with the Lith. žuvi-s to a st. ghu (ghju), and perhaps too to connect *l-κτî-νο-s* 'falcon' with the synonymous Skt. cjēná-s (primary form kjaina).

Though a mute and a liquid are a favourite beginning for a word in Greek, there are a few cases in which prothesis has taken place. As to a-rpo-a-o-uai (No. 62) and ο-κρυ-ό-ει-s (No. 77) doubt may still be felt. But ό-τρη-ρό-s, ό-τρα-λέο-ς, ό-τρύ-ν-ω have, as we have shown under No. 244, such unmistakeable by-forms without the vowel that we cannot doubt how their vowel arose. On the other hand we saw on p. 468 that a different origin was more probable for the α of ατρακτο-s. — By the side of τρυγη-φάγο-s 'fruiteater' are found the by-forms ά-τρυγη-φάγο-s and ό-τρυγηφάγο-s in Hesych. — δ-βριμο-s in its relation to the rt. βρι we discussed on p. 532. The same vowel initial is shown by the proper names 'Οβριμώ Βριμώ, ή Περσεφόνη, 'Οβριάρεως = Βριάρεως (Lob. 'El.' i. 80). — The poetical words 6-τλο-ς 'sorrow,' δ-τλέ-ω 'suffer,' δ-τλη-μα and probably 'A-τλα-s too are so near in meaning to the rt. τελ, ταλ (No. 236), that they cannot be separated from them. Of the Skt. rt. jat 'bind,' 'strive,' with which Fick i3. 730 connects these words the same cannot be said. The singular word ἀφλοισ-μό-ς O 607, ἀφλοισμὸς δὲ περὶ στόμα γίγνετο was explained, it is true, in Apollonius's Lexicon, which relied on a reading 'γίνετ' ὀδόντων' to be a sort of noise, but we shall be the more inclined to take ἀ-φλοισ-μό-ς to mean 'foam' because φλοίσ-βο-ς, mentioned at No. 412 e has also this meaning.

While in the words just discussed the two consonants supported by the prothesis of a vowel have both been retained, we can produce a second list in which, though the vowel served the same purpose, it was not able to prevent the loss of one of the two consonants. Here belong rt. δ-δυς (No 290) for δ-δεις, δ-λισ-θ-άν-ω from the rt. γλιτ, and consequently to be traced to δ-γλισ-θ-αν-ω (No. 544), δ-λιβ-ρό-ς which is discussed at the same place. In ἡπανία 'lack,' there is probably a trace of the double consonant preserved in the length of the vowel (cp. Fr. épée); which double consonant we probably have in σπάνι-ς (No. 354).

As regards the simple consonants, a prefixed vowel is least to be wondered at in the case of liquids and nasals. 724 It is sometimes even hard to tell which of the two vowels, that at the beginning of the word, or that following the nasal, is the older. The analogy of the related languages 1 however points to prothesis in the following cases: the $\dot{\epsilon}$ of ε-ρημ-ο-ς by ή-ρέμ-α and ά-ρά-μεναι (No. 454), έ-ρεύγ-ω (No. 143), έ-ρείκ-ω, έ-ρέχ-θω ('Gk. Verb' p. 503), with which Fick i3. 742 and the 'Pet. Dict.' aptly compare the Ved. rikh 'tear up,' while Froehde 'Ztschr.' xxii. 264 adds also the Lat. rī-ma 'chink' (Van. 808), ἐρείπ-ω, which at No. 513 was put with ρίπτω, ε-ρυθ-ρό-ς (No. 306) and perhaps that of έ-ρεβ-os (p. 480), the o of o-ρυγ-μό-s by ω-ρυγ-ή (No. 508), the ώ of ώ-ρυ-ω (No. 523) by ό-ρύ-ε-ται. — Before λ there appears a prothetic à perhaps in à-λέγ-ω (No. 538), certainly in à-λείφ-ω (No. 340), as also in ά-λί-ν-ειν (άλείφειν Hesych.), which is akin to the Lat. li-n-e-re and belongs to the forms dis-

¹ Froehde 'Ztschr.' xxii. 263 says truly: 'Among the Greek words beginning with ρ, of those whose etymology is clear there are only a few which had this initial from the beginning, i. e. ράπ-νς (No. 511), ρέζω 'dye' (No. 154).' — The hitherto unexplained έ-ρείδ-ω Fr. with great probability compares with the Lat. rid-i-ca 'vine-prop.'

cussed under No. 541, and in α-λώπηξ (No. 525.) — The root of $\dot{\epsilon}$ - $\lambda \alpha \dot{\nu} \nu$ - ω (from $\dot{\epsilon}$ - $\lambda \alpha$ - $\nu \nu$ - ω , cp. p. 682) comes near to the la of the Lat. lāmina (Pott ii1. 167). The application of ελαύνειν to the working of metals is as early as Homer. But at No. 529 and on p. 551 we saw the root to be ¿A. - There is, however, a clearer case of prothesis of έ in έ-λαχ-ύ-ς (No. 168) with the perhaps related (p. 483) $\dot{\epsilon}$ - $\lambda \alpha \phi$ - $\rho \dot{\delta}$ -s, and of $\dot{\delta}$ in $\dot{\delta}$ - $\lambda \dot{i} \gamma$ - δ -s (No. 553), $\dot{o}-\lambda \dot{o}\pi-\tau-\omega$ (Hesych.) by the side of $\lambda \dot{\epsilon}\pi-\omega$ 'shell,' perhaps in "O-λυμπ-o-s with an Aeolic υ, if λαμπ (No. 339) is the root. - Before v à introduces itself in the same way in $\dot{\alpha}$ - $\nu\dot{\eta}\rho$ (No. 422), $\dot{\epsilon}$ in $\dot{\epsilon}\nu$ - $\nu\dot{\epsilon}\alpha$ (No. 427), in the latter attended by a peculiar doubling of the nasal; before μ we assume a prothetic $\dot{\alpha}$ in $\dot{\alpha}$ - $\mu\alpha$ - $\lambda \dot{o}$ -s as in the related $\dot{\alpha}$ - $\beta \lambda \eta \chi$ - $\rho \delta$ -s (No. 457) and $\dot{\alpha}$ - $\mu \beta \lambda$ - $\dot{\nu}$ -s for $\dot{\alpha}$ - $\mu \lambda$ - $\dot{\nu}$ -s, in $\dot{\alpha}$ - $\mu \alpha \rho$ - $\dot{\nu} \sigma \sigma$ - $\epsilon \iota \nu$ 'flicker,' from the same rt. µap, which occurs reduplicated in $\mu \alpha p - \mu \alpha (p - \omega)$, $\mu \alpha p - \mu \alpha p - \sigma - \sigma$, $\mu \alpha p \mu \alpha p - \nu \gamma - \dot{\eta}$ (p. 567), in $\dot{\alpha} - \mu \alpha \lambda \delta - \dot{\nu} \nu - \omega$ (No. 457) in $\dot{\alpha}$ - $\mu\epsilon i\beta$ - ω and $\dot{\alpha}$ - $\mu\epsilon \dot{\nu}$ - ω (No. 450), in $\dot{\alpha}$ - $\mu\epsilon \lambda \gamma$ - ω (No. 150), α-μέργ-ω (No. 151), α-μύ-ν-ω (No. 451), perhaps in ά-μύσσω discussed on p. 546; έ in the pronominal stem έ-μέ by the side of μέ (No. 460), with which may be compared the ModGk, $\dot{\epsilon}\sigma\dot{\nu} = \sigma\dot{\nu}$ (Mullach 'Gr. Vulgarspr.' p. 182); there is, however, the possibility here that $\dot{\epsilon}$ is a 725 shortened reduplication-syllable 1; δ in δ-μιχ-έ-ω, δ-μίχ-λη (No. 175), though, as α-μιξαι (Hesych.) shows, it is sometimes replaced by a, in o-voua, the initial of which was discussed at No. 446. Fick i3. 125 connects δ-νο-μαι 'revile' with the Zd. nad 'despise,' with a by-form nid for δ-νειδ-ος, δ-νί-νη-μι 'benefit' with the Skt. nand 'rejoice' (causal nandájā-mi ' made glad'). We should have to suppose loss of & for both verbs. The middle use, e.g. in ονήσεαι, ονήμενος and that of oungers suit the derivation from this root, which is represented in Lith. by naud-à 'gain,' 'produce,' 'goods,' in Goth. by niut-an 'enjoy,' 'benefit,' also with a u-sound. In the German geniessen 'enjoy' and nutzen 'benefit' we find the two main meanings of this root again represented by words of similar sound. νήδ-υ-μο-ς the much discussed epithet of sleep in Homer has often been connected with the rt. nand;

Windisch denies both and regards ἐμε as identical with the Skt. ama 'this' (cp. ama 'at home,' amat 'from the neighbourhood').

this is probable, and the word would thus mean 'cheering.' There are difficulties, however, presented by ὅνειαρ, the ι of which has not been explained (cp. on No. 279). For this reason I am still doubtful about it. Gust. Meyer 'Praesensst.' p. 42 and Leo Meyer ('Ztschr.' xxiii. 58) start from the rt. van (Goth. vun-an) 'rejoice.' In that case there would be no prothesis.—On the subject of prothetic vowels before a digamma we need only refer to p. 578 ¹.

It cannot altogether be denied, however, that prothesis occurred before explosives as well. We regarded it as certain in ά-κινάγ-ματα (p. 490) the intermediate form between the rt. κι and τινάσσω, doubtful in ἀκούω (No. 64). In the case of δ-κέλλω, mentioned under No. 48 and almost synonymous with κέλλ-ω, it is conceiveable that the vowel arose from the prep. avá transformed in Aeolic fashion to ov. - Before y prothesis of an & seemed to us probable in a-yav-6-s and the related words (No. 122), while we explained the ε of ε-γερ (No. 139) to be a mutilated reduplication. Whether ὀχεά, οχεή 'hollow,' which occurs in the Alexandrian writers, is really, as old etymologists supposed, the same word as xeiá (No. 179), may be left uncertain. — But before δ prothesis can hardly be denied in \(\alpha - \delta \alpha - \mu \delta \cdot - \mu \delta \delta - \delta \alpha - \delta \delta \delta - \delta \delta - \delta \delta - \delta \delta \delta - \delta - \delta \delta - \d verb $\dot{\alpha}$ - $\delta \alpha \dot{\xi}$ - $\dot{\epsilon}$ - ω by the side of $\dot{\sigma}$ - $\delta \dot{\alpha} \dot{\xi}$ - ω , $\dot{\sigma}$ - $\delta \alpha \dot{\xi}$ - $\dot{\epsilon}$ - ω , the relationship of which to the rt. bak (No. 9) is confirmed by the glosses in Hesychius οδάξει τοις οδούσι δάκνει, οδαξησμός τρισμός δδόντων (cp. p. 64). In δ-δάξ 'mordicus' also the primary meaning of the root is evident. - The same assumption is made by Schleicher ('Compend.3' 77) for ¿δούς (Aeol. plur. έδοντ-εs). We put the word under the rt. έδ at No. 289. — We may probably place in the same list ο-δύρ-ομαι by the side of δύρομαι, πάν-δυρ-τος (trag.). — The grammarians quote 726 άδορο-ς in the sense of 'leathern bottle' (δορό-ς) from Antimachus. Pott ii². 394 is wrong in saying that Suidas takes the word to mean 'untanned.' On the contrary Suidas himself mentions the meaning κώρυκος, and the added ἄδορον. τὸ ἀνέκδαρτον does not mean 'untanned' (ἀδέψητος) but 'not taken off.' In such an isolated word I regard the origin of

To these may be added α-εμμα εμάτιον Hesych. from the rt. Fes (No. 565, Knös 104).

the vowel in the preposition $d\pi \delta$, which well suits the meaning, as not impossible. Compare the Cyprian compounds with $l = \delta \pi \delta$ given on p. 718. — It is not yet clear what is the relation between $\dot{\epsilon}$ - $\theta \dot{\epsilon} \lambda$ - ω (the only form in Homer) and $\theta \in \lambda - \omega$, since we do not know what the root of the word is. The most probable of the conjectures about it is that of Pott ii². 401, W. ii. 1 339 (cp. Fulda 'Untersuch. üb. homer. Sprache' i. 237, Fick i3. 633), that έθελ corresponds to the Skt. dhar 'hold' in the sense of 'sustinere,' 'hold to,' 'attach oneself to' something. The Skt. dhar, acc. to the 'Pet. Dict.' means, with a dat. or acc. of the thing, or with the inf., ' undertake,' 'begin,' the part. dhṛ-tá-s 'ready.' And ἐθέλειν as opposed to βούλεσθαι does denote a fixed determination (cp. ϕ 177). In that case here too the ϵ , unless it is the remnant of a reduplication, would be simply prothetic. όβελό-s (cp. p. 483) is of too obscure etymology to allow of an opinion about the o.

We see from this review of the subject that τ , π , and ϕ are not numbered among the consonants before which this phenomenon appears, these letters being very common and favourite initials. But prothesis is in general extremely rare before explosives, for which reason we may have somewhat to reduce the list just given 1. To take refuge in the view that such vowels are the remains of mutilated prepositions seems to me allowable only when this is rendered probable in some individual instance both by sound and meaning. In general apocope of disyllabic prepositions is confined to Aeolic and Epic Greek. We see too from the care with which the nasal of the prep. $\dot{\epsilon}\nu$ is preserved how reluctant the language was as a rule to neglect the principle of intelligibility in formations of this nature.

2. EVOLUTION OF A VOWEL WITHIN THE WORD.

That vowels have been inserted is also an assumption which the comparative study of languages makes us slow

¹ Brugman 'Stud.' vii. 214 prefers, in a number of the cases given above, to regard the vowel as a mutilated reduplication. But it is very rare to find a and o used in forms where reduplication is established.

to accept. But it is impossible to deny the fact altogether. Pott ii¹. 223 has discussed a number of undoubted cases from 727 various languages, Heyse ('System der Sprachwissenschaft' p. 220), Leo Meyer i. 221 and again 274 give shorter collections. The subject is discussed at greater length by Walter 'Ztschr.' xi. 428, xii. 375, 401 ('Vocaleinschiebung im Griechischen'). Lobeck in his treatise 'De parectasi' ('Elementa' i. 403) has investigated much that belongs here from a purely Greek point of view. The most exhaustive treatment is now that above mentioned by Joh. Schmidt 'Voc.' ii., particularly p. 307 ff. where vowel-evolution is brought into close connexion with vowel-lengthening1. In the case of insertion there is less relaxation than in that of prothesis of the rule that the phenomenon occurs only in the neighbourhood of r, l, n, m. Properly speaking insertion, as we saw, is a further unfolding of the 'voice' which is heard in the so-called sonant sounds, and which also generated prothetic vowels before them. To the same source is due the frequency of metathesis in the case of the same sounds, and the fact that in some languages it is possible for r and l themselves to be regarded as vowels. Hence too the insertion of a short e after r which has to a large extent become a rule in Zend: hvare 'sun' = Skt. svar, dadareça = Skt. dadárça, Gk. δέδορκα (Bopp 'Vgl. Gr.' i2. 55), and it is a fact connected with this that a Skt. r is represented as a rule in Zend by ere, which latter group of sounds Justi p. 357 actually gives as a vowel, lengthened into are and further into dre. As instances of the anaptyxis that is not uncommon in modern Greek we may take δraχumi = δραχμή, Πάτιμος = Πάτμος. Numerous analogies for Greek are to be met with in the Italian languages. The most consistent is Oscan, as Kirchhoff 'Ztschr.' i. 36 ff. shows in his excellent essay 'Vocaleinfügung im Oskischen.' We need here only refer

¹ There has just appeared Fick's essay 'Schwa indogermanicum' in Bezzenb. 'Beitr.' iii. 157 ff., which traverses ground contiguous to this. Still the author distinguishes between his 'schwa' and a 'fractional vowel' ('Theilvocal'). Here too we find discussed from a different point of view much that we have treated above p. 710 ff. under the head of vowel change,—whether profitably or not I leave others to decide.

to forms like Al-a-faternom = Alfaternorum, ar-a-getud = argento. Kirchhoff shows that Oscan, in these cases of real insertion, assimilates the inserted vowel to the preceding one, while in another class of forms, in which the moveable vowel sometimes assumes a privileged position, e.g. in pu-terei 728 by the side of pii-turu- $s = \pi \delta \tau \epsilon \rho \rho$, the influence of the following syllable is to be traced, and that with a consistency greater than that which we discovered on p. 721 in the case of prothetic vowels in Greek. Kirchhoff gives a copious selection of analogous processes from Old-High-German, like $al-a-h = Goth. \ alh-s, pur-u-c = Goth. \ ba\'urg-s, far-a-h = Lat.$ porc-u-s (No. 104). From the corresponding later forms we perceive that such vowels come to the surface and disappear periodically in the history of language. On the tendency of Old-Latin to assist the pronunciation of unusual groups of consonants by means of inserted vowels, we may refer to forms like Aesc-u-lapiu-s = 'Ασκληπιό-s, Proc-i-na = Πρόκνη and to the full discussions of Ritschl 'Opuscula' ii. 469 ff. and Corssen i1. 253, 258, ii2. 77 f., and on similar insertions in Irish to Windisch 'Kurzgef. Ir. Gr.' § 78.

The vowels most frequently used for this purpose in Greek were α and ϵ_i more rarely o and ι , and most rarely of all v. The following are certain instances of insertion. In drawing up the list no distinction has been made between cases in which the insertion can be established by the comparison of other Greek forms and those which only betray it when compared with words taken from other languages. It is moreover not always possible to decide which was the original position of the vowel. — Either before or after ρ there appears an inserted vowel in $\dot{\alpha}\rho-\alpha-\beta\dot{\nu}\lambda\alpha s$ (Hesych.) by the side of $\dot{\alpha}\rho\beta\dot{\nu}\lambda\alpha v$ $\dot{\gamma}\dot{\epsilon}\nu\sigma\dot{\delta}\nu\sigma\dot{\delta}\eta\mu\dot{\alpha}\tau\omega\nu$ probably from the same stem as $\dot{\alpha}\rho\pi-i\dot{\delta}-\dot{\epsilon}s$, used in a like meaning by Callim. (*E. M.' 148, 39), and accordingly belonging to $\dot{\alpha}\rho-\pi$ (No. 488), $\dot{\alpha}\rho-\dot{\alpha}-\chi-\nu\eta$ compared with $\ddot{\alpha}\rho\kappa-\nu-s$ (No. 489 and p. 502), $\dot{\alpha}\rho\eta\nu\sigma-\beta\sigma\sigma\kappa\dot{\delta}-s$ (also $\dot{\alpha}\rho\epsilon\nu\sigma\beta\sigma\sigma\kappa\dot{\delta}s^{-1}$ and

¹ On ἀρενοβοσκός in Hesych. doubt is thrown by its place in the alphabetical arrangement. The form with the long vowel is stated by the same authority to have stood in Sophocles 'Tyro' with the variant ἐρρηνοβοσκός. Nauck 'Philol.' vi. 389 quotes from Eustathius p. 799, 36 a fourth form ἐρενοβοσκός but does not believe in any of the four.

έρρηνοβοσκός), where in accordance with the views expressed under No. 496 we must hold either the first or the second vowel to be of later development, $A\rho - \epsilon - \pi \nu i \alpha \iota$ by the side of "Αρπυιαι ('Ε. Μ.') cp. No. 331, άρ-έ-τησαν ήρμοσαν, with which too should be compared $\dot{\alpha}\rho - \epsilon - \tau \dot{\eta}$ and other forms mentioned under No. 488, άρ-ι-θ-μό-s and νήρ-ι-το-s belonging to the same root, and $\dot{\alpha}\rho - \iota - \mu \dot{\alpha} \dot{\zeta} \epsilon \iota = \dot{\alpha}\rho - \mu \dot{\alpha} \dot{\zeta} \epsilon \iota$ (Hesveh.), $\beta - \dot{\alpha} - \rho \alpha \gamma \gamma \rho - s$ given in the 'E. M.' from Hipponax and βαραγχιᾶν mentioned as a common Attic by-form of Bpayxiav 'to be hoarse' (Lobeck 'El.' i. 404), to which too belongs βαράγχια τὰ βράγχια τῶν ἰχθύων, βαρραχεῖν ἡχεῖν, σκιρτᾶν (Hesych.) with doubled ρ (cp. ἐννέα), in its first meaning not to be separated from βραχείν, δ-ά-ρυλλο-ς Macedonian for δρῦ-ς and given along with it under No. 275, έρ-έ-β-ινθο-s and 729 ορ-o-βo-s (No. 494) by the side of er-vu-m and the OHG. ar-a-weiz also with an added vowel. Perhaps too the Cretan $P\alpha\beta i\nu\theta io$ -s, the name of a month, belongs to the same root (Ahrens 'Rhein, Mus.' xvii. 351). έρ-ε-τ-μό-ς we referred under No. 492 to a rt. έρ; θ-ό-ρυ-βο-ς was connected under No. 317 with θρῦ-λο-ς; κ-ά-ρραξον Πάφιοι κράξον (Hesych.) bears exactly the same relation to κράξον that βαρραχείν does to $\beta \rho \alpha \chi \epsilon i \nu$, and on this account M. Schmidt is certainly wrong in suspecting the word. $\partial \rho - \hat{\epsilon} - \gamma - \omega$ stands by the side of the Skt. arg, op-6-y-via by the side of opy-via (No. 153). On δρώρ-ε-ται I may now refer to 'Gk. Verb' p. 417. To the same root again (No. 500) belongs δρ-ο-θ-ύν-ω; and if we compare δρ-ί-ν-ω with δρ-νυ-μι it seems natural to explain the ι to be a vowel, the lengthening of which is only compensatory. $\delta \rho - \bar{\iota} - \nu \omega$ comes either from $\delta \rho - \iota - \nu j \omega$ (cp. $\beta \alpha \hat{\iota} \nu \omega$) or from $\delta \rho - \iota - \nu \nu \omega$ (cp. τί-νω by the side of τινύω). σκάρ-ι-φο-ς by the side of σκαρφ-ίον and κάρφ-ιον and κάρφ-ο-ς were mentioned on p. 694, στέρ-ι-φο-s at No. 222; the relation is precisely the same between the common form \(\tau \delta \rho - \lambda - \tau \core \) 'salt meat,' whence ταρ-ι-χ-εύ-ω, and ταρχ-ύ-ω (Lobeck 'El.' i. 463), which belong no doubt to the rt. Tepc (No. 241) 'to dry,' and have lost one ρ assimilated from σ. In ταράσσω too ('Gk. Verb' p. 222) the vowel has passed into general use, though it is wanting in the noun τάρχη, τάραξις, while θράσσω, τέτρηχ-α are due to syncope (Joh. Schmidt 'Voc.' ii. 314). At p. 100 he refers

τάρ-ι-χο-s to the rt. θ αρχ = Teut. drug ('dry'). Still the ι is anaptyptic all the same, so too, probably, in $\dot{\epsilon}$ ρείκη 'heath,' 'heather.' The word corresponds strikingly with the OIr. froech f. 'heath,' 'heather,' primary form *vraikā. Apparently we must assume a Gk. Fερείκη. Cp. Windisch 'Stud.' vii. 379, Stokes 'Beitr.' viii. 351. The Tarentine τ ορ-ό-νο-s = τ όρνο-s 'circle' (Hesych.) belongs to a class of similar formations which were mentioned with τ έρ-ε- τ ρο-ν under No. 239. Completely analogous is the Aeol. ϕ ερ-έ-να, or, as Lehrs on Herod. ' π . μ ον. λ εξ.' 33, 30 writes, ϕ έρ-ε-να for ϕ ερ-νή 'dowry' (No. 411). — Before ρ a similar ϵ is produced in the Aeol. μ έ τ -ερρο- ϵ s, which is to be deduced from ϵ λεθαίρω ('Gk. Verb' p. 255).

Before or after A we find an inserted vowel almost as often. Here belong άλ-ε-γεινό-s and δυσ-ηλεγ-ήs 'hard,' Schaper 'Ztschr.' xxii. 515 by alay-os 'pain,' a word of obscure origin, since it is very doubtful whether it is related to άλέγ-ω, discussed under No. 538, and not more than possible that it is related to the Lat. alg-or, alg-us (cp. τὸ δέ τοι καὶ ρίγιον ἔσται and Fulda 'Untersuch.' i. 221), and also rt. άλ-ε-ξ (No. 7) by the side of άλκ and the Skt. raksh along with the related $d\rho - \dot{\eta} - \gamma - \omega$, referred to also on p. 533. Perhaps too άλ-ι-κίνο-ς δυνατός in Hesych. belongs here; it seems to be a mistake for $\dot{\alpha}\lambda$ - $\dot{\iota}$ - $\kappa\iota\mu$ 0-s, i. e. $\dot{\alpha}\lambda\kappa$ - ι - μ 0-s. $\dot{\alpha}\lambda$ - ω - ϕ 0-s. $\lambda\epsilon\nu\kappa$ 0saccording to Hesych, and its compound άλωπόχρους are rightly explained by Savelsberg 'Rhein. Mus.' xxiii. 384 to be from άλ-φό-s (No. 399), and he points out a similar insertion in 730 the Osc. Al-a-faterna. The long vowel is as in ἀρήγω, σκάριφο-s. Further with Lobeck 'El.' i. 31 we may add ἀστέλ-εφος τὸ περὶ τὴν κιθάραν δέρμα (Hesych.) by the side of στέρφ-os 'skin,' and here we should also have to suppose the initial vowel to be of later date and ρ and λ to have been interchanged. ἐν-δελεχ-ής and δολιχ-ό-ς with the Skt. dīrghá-s have been discussed under No. 167, δάγκ-ο-λο-ν on p. 621. We treated of the relation of ήλ-α-κ-άτη to the rt. άρκ under No. 489, that of $\eta \lambda - \nu - \theta - \rho - \nu$ to the rt. $\dot{\epsilon} \lambda = \dot{\epsilon} \rho$ on p. 556, $\dot{\epsilon} \rho - \nu - s$ (ἐρύω) by the side of Fep-s at No. 497 b, that of ήλ-ι-τ-ο-ν,

 $\dot{\eta}\lambda$ - \dot{i} - θ -i-o-s to the rt. $\dot{\alpha}\lambda$ on p. 557. κ - $\dot{\epsilon}$ - $\lambda\alpha\delta$ -o-s 'noise' and κελαδείν are compared, perhaps rightly, by Fick i. 541 with the Skt. krad, krand roar, 'neigh,' 'bellow.' κολ-ε-κ-άνο-ς, κολ-ο-κ-άνο-ς, κολ-ο-σσό-ς come, as was shown under No. 67. from a st. kark, μαλ-α-κό-ς is, as we saw under No. 457, the softer form for Hesychius's μαλκό-ς. The o of μ-ό-λυβο-ς and the related forms was seen under No. 552 to be inserted. παλάσσω 'sprinkle' comes from a primary form παλ-α-κ richer by a vowel than the related περκ (No. 359 b). The same origin was conjectured under No. 367 for the ε of πέλαν-os. It is clear that insertion has taken place in the forms $\pi \epsilon \lambda - \epsilon$ κ-υ-s (No. 98), which agrees remarkably with the Skt. para $c\hat{u}$ -s, Hom. \hat{a} - π - $\hat{\epsilon}$ - $\lambda \hat{\epsilon}$ - $\theta \rho o$ -s 'immeasurable' and π - $\hat{\epsilon}$ - $\lambda \hat{\epsilon}$ - $\theta \rho$ - $o \nu$ by the side of $\pi\lambda \hat{\epsilon}$ - $\theta\rho\rho$ - ν (No. 366), and in $\sigma\kappa\hat{\alpha}\lambda\rho\psi$, $\sigma\pi\hat{\alpha}\lambda\alpha\hat{\xi}$, ἀσπάλαξ (No. 106). Aristoph, said Τελ-ε-μησσης (Meineke 'Com.' ii. p. 1159) instead of Τελμησσείς, τολ-ύ-π-η 'clue' we regarded as an expansion of the rt. ταλ (No. 236) by means of a determinative π, χ-ά-λαζα was discussed under No. 181, $\psi \eta \lambda - \alpha - \phi - \acute{\alpha} - \omega$ 'feel' is connected, probably rightly, with the rt. ψαλ ψάλλειν by Walter 'Ztschr.' xii. 406, who also compares the Lat. pal-p-are; perhaps the original form of the root was spal, and we might even imagine a connexion with the OHG. spil-ô-n. In this way we should be brought to a connexion with No. 389.

Far smaller is the number of words of this class that have a nasal in their stem. In the case of $\delta\nu$ - ϵ - μ o-s (No. 419) the comparison of the Indian verbal form δn - δn - δn is important, in $\delta \phi$ - $\delta \phi$ - $\delta \rho$ by the side of $\delta \phi \nu \epsilon i \delta s$ (p. 510) the $\delta \rho$ points to a time when the labial stood immediately before the $\delta \rho$. Still we may compare $\delta \rho$ - $\delta \rho$ - $\delta \rho$ (No. 237) and the Lat. fac-inus. How the $\delta \rho$ of $\delta \nu$ - $\delta \rho$ - $\delta \rho$ - $\delta \rho$ is related to the $\delta \rho$ of $\delta \rho$ - $\delta \rho$ -

Throughout the whole of our extensive investigations we have made a point of bringing into prominence the persistent tendency which, in spite of the multiplicity and variety of phonetic change, pervades the whole history of language, and puts it within our power to establish definite relations between the sounds of Greek and those of the related languages. Not only in the regular substitution of sounds, which we dealt with in the second book as the main and fundamental law of the Greek language, but also in the isolated exceptions to this law which we had to notice in the third book, we recognized at p. 409 one and the same fundamental tendency, that of 'weathering away,' which on closer inspection was found to consist in a decrease of energy in the attempt to pronounce certain sounds. But alongside of those phonetic transformations which, like softening, dulling, and complete loss of sounds, were the simplest result of the above-mentioned fundamental tendency, and on this account admitted of being regarded as normal, we found others besides, which at first looked abnormal, and inconsistent with this tendency. First among these comes the reciprocal influence of sounds on each other, owing to which, inasmuch as the stronger sound occasionally assimilated the weaker more or less to itself, there certainly arose the possibility of a strengthening as well. But a strengthening of this kind, if closely examined, is only apparent, since it is due to the inability to produce completely the particular sound originally intended, owing to the difficulties caused by the neighbouring sounds. To the same class belongs further the birth of the subsidiary or parasitic sounds. Since a really strong articulation excludes these subsidiary sounds, this process too depends on a certain relaxation of the vocal organs. As we have arranged the matter of our investigation according to the separate sounds, I will take the opportunity of giving here, at the conclusion, a comprehensive resumé of the whole, from the points of view

just discussed. Ludwig Lange (now my valued colleague)¹, in his review of the first edition of this work ('Ztschr. f. d. 783 österr. Gymn.' 1863 p. 295) justly pointed out the want of a general survey, and drew up one of his own which I here adopt in many of its items. The regular sound-changes (Bk. ii.) will be found in spaced, the sporadic (Bk. iii.) in ordinary type.

I. NORMAL CHANGE OF SOUND.

A. Relaxation of articulation.

- 1. Weakening of the tenuis to the medial p. 533.
- 2. Dulling of harsh groups of consonants p. 691 f.
- Substitution of the hard aspirate for the more difficult soft one p. 424.
- 4. Change of m into n and the reverse p. 543.
- 5. Change of r to l p. 547.
- Change of s into h before vowels pp. 375, 392, 412 f.
- 7. Change of j into h p. 396.
- 8. Change of v into h p. 413.
- 9. Interchange of the sharp and weak breathings pp. 682 ff.
- 10. Change of v into v, o, ω pp. 563 ff.
- 11. Change of j into ι or ε pp. 606 ff.
- 12. Dulling of a into ε and o p. 90.
- 13. Weakening of a into ι pp. 711 ff.
- 14. Weakening of a into v pp. 713 ff.
- 15. Weakening of u into i pp. 716 ff.

B. Complete loss of sounds.

- 1. Loss of a consonant pp. 429 ff., 692.
- 2. Dropping of the breathing pp. 524 ff.
- 3. Loss of s, v, j pp. 94, 416.
- 4. Disappearance of a nasal pp. 53, 531.
- 5. Loss of a vowel pp. 45, 572.

II. ABNORMAL CHANGE OF SOUND.

A. Through the influence of neighbouring sounds.

- 1. Hardening of F to B p. 583.
- 2. Hardening of F to ϕ p. 600.
- ¹ [Dr. L. Lange's death followed within a fortnight that of the author of this work in the early autumn of this year, 1885.]

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- 3. Change of F to µ pp. 589 ff.
- 4. Change of F to ρ p. 455.
- 5. Hardening of j to y pp. 612 ff.
- 6. Assimilation of λj, ρj, νj to λλ, ρρ, νν p. 664.
- 7. Change of τj , θj , κj , χj to $\sigma \sigma$ ($\tau \tau$) pp. 665 ff.
- 8. Change of δj, γj to ζ or δδ pp. 669 ff.
- 9. Change of πj into $\pi \tau$ pp. 497, 676 ff.
- 10. Change of χj into $\chi \theta$ pp. 499, 675 ff.
- 11. Change of λ into ν p. 450.
- 12. Change of σ into ρ p. 452.
- 13. Metathesis pp. 653, 678 ff.
- 14. Dissimilation of various kinds pp. 706 ff.
- B. Through the generation of parasitic sounds.
 - 1. Change of k, g, gh into kv, gv, ghv, and further into π , β , ϕ (Labialism) p. 456.
 - 2. Change of k and g into kj, gj, and further into τ , δ (Dentalism) p. 485.
 - 3. Change of v into gv, and further into y pp. 442, 596.
 - 4. Change of j into dj, and further into dz (ζ) and δ pp. 623 ff.
 - Production of a j after other consonants pp. 497,
 661 ff.
 - 6. Aspiration of an unaspirated explosive p. 500.
 - 7. Production of auxiliary vowels pp. 578, 718 ff.
 - 8. Production of auxiliary consonants p. 719.

The following may be taken as a summary of the leading principles which should guide the etymologist.

- 1. Etymology seeks to arrive at the primary idea of a word, and proceeds by a continual abstraction of formal elements which express relation, until it finds the ultimate agglomeration of sounds.
- 2. These ultimate significant agglomerations of sounds, the formless matter of speech as it were, we call roots. We assign a real existence to roots, assuming that before the development of the formal element in language roots were the real words of language, and that even in a later stage

the root presented itself more or less clearly as the common kernel of many connected words, to the consciousness of those who used them.

3. Inasmuch as we can distinguish sounds of various kinds, added to these roots, which, though by no means firmly attached, still do not belong to the formal elements of language, we make a distinction for the family of languages with which we have to deal, between primary roots, i. e. such as have no such added sounds, e.g. ju, and secondary ones expanded by these same elements, e.g. judh. These amplificatory sounds, which limit the meaning of the root and thus define it more sharply, we call root-determinatives, e.g. the dh in judh. The expansion of primary roots by determinatives falls for the most part into an early period of language.

4. The highest and last task for the etymologist, the tracing of the whole of the words of a language to their roots, can only approximately be fulfilled, and necessitates various preliminary labours. There is no mistake which entails a heavier penalty upon the etymologist than too great haste in referring a word to its root.

5. One of the most indispensable preliminaries for the discovery of roots is the comparison of the words of a language with those whose relationship to them can be established by sound and by meaning. This process is as it were the marshalling of our troops.

6. In marshalling thus our array we must not limit ourselves in the case of the Indo-Germanic languages to a single
language. As it has been proved that these languages possessed before their separation a multitude of words, stamped
with definite individuality of sound and meaning, the family
history of the several languages extends back to the time when
no separation had as yet taken place. In marshalling Greekwords then each word must be classed with those words, both
in Greek itself and in the cognate languages, which a careful
balancing of probability shows to be related to it.

7. As the result of this comparison we attain to the Indo-Germanic primary form of a word, and in many cases to the root, which is common to the different languages, and to which each of them has given a special form. This comparison however possesses a value of its own apart from the attainment of this last result (cp. p. 80).

- 8. Relationship is established between words in a language or in kindred languages when their sounds and their meaning can be shown by direct evidence or demonstrable analogies to be equivalent.
- 9. The sounds of a language stand to those of the related languages in a relation which can be accurately determined. Greek sounds especially are subject to phonetic laws and tendencies, and attention to these is the first and inviolable rule in all attempts at etymology.
- 10. It is in many cases more difficult to determine the course of the change of meaning. Still we have found some guiding analogies and certain courses of language even here. First of all it is clear that language always started from definite perceptions, not from vague generalities, and that the mental power which forged man's speech comes nearer to the poet's fancy than to the logician's abstraction. For the rest, the science of etymology is still in the experimental stage as regards the transition of meaning. For the 736 present at any rate what we have to rely on mainly here, as in the greatly similar case of textual criticism, is a judgement formed by the devoted study of richly developed languages, and in the case of Greek etymology on intimate acquaintance with Greek and its nearest kin Latin. This is a part of linguistic investigation which Classical Philology can least of all afford to hand over to the general or comparative science of language. — The only course open to the individual investigator, in respect to such languages as he has not mastered in the same degree, is to rely on the most trustworthy statements of others. The German however has a specially fruitful field open to him in the usages of his own rich language, with which he is personally and directly familiar.
- 11. It is of great importance that, in dealing with the meaning of words, what is actual should be distinguished from what is merely conjectural. That λύκο-s and lupu-s both mean 'wolf' is a fact, which, considering the near relationship of the two languages, proved for us in other ways, is an argument of much weight for the original identity

of the two words. As to the primary idea to be attached to the word we have only conjectures. The etymologist must be very careful not to set down an idea, which at most *might* be the fundamental meaning of the word, for that which actually was its fundamental meaning.

12. A conjectural primary idea or meaning — in the example above given 'shining one' — must not be received if it is derived from the one language alone, but only if it suits all the words, whether in that, or in related languages, which a sound method of investigation shows to be connected — and in the example given this is not the case.

13. Actual substantial agreement in meaning, that is, in the object denoted by the words, warrants us, in case a strict examination shows the sounds to agree, in pronouncing words of related languages or dialects to be related, in this instance λύκο-s to be related to the Skt. v/ka-s, ChSl. vlŭkŭ. Whether or not we arrive at once, or arrive at all, at an etymon as the result of this comparison is a question by which the comparison itself is not affected in the least.

14. For this very reason words of a clear stamp, which denote external objects, in so far as the *one* point — their actual meaning — is clearly determined, are better adapted to be the foundation for difficult phonetic investigation, than roots and words of a more metaphysical character, which on this account are harder to grasp and may be suspected of coming from a different source.

15. In these questions we must meanwhile never lose sight 737 of the fact, that language may have arrived by very different ways at the name for an object, and for this reason, in cases where the sounds admit of combination with more than one other family of words, the connexion of two words is very often the result of much consideration, and the choice lies between various rival possibilities.

16. We can here always find in what is evident some help . to the decision of what is doubtful. Hence it becomes possible, particularly according to the verdict of *Analogy*, to get the vocabulary of a language gradually into order, and to put each word side by side with its kin in the related languages. For the explanation of proper names, whose meaning does not at

once strike the reader, we have more than ordinary need of the analogy of definite, unmistakeable, and soundly analysed words.

17. All Etymology must start from the recognition of the fact that language was *rich* and developed in manifold ways at a very early period. Hence it is as foolish to assume a scanty provision of primitive sounds as to suppose that there were only a limited number of primitive ideas or but a small circle of primitive suffixes. We should therefore do far more wisely in doubtful cases to leave asunder provisionally what possibly has no connexion, than to be in too great a hurry to connect words on account of a slight resemblance.

We conclude with the saying of Epicharmus, which every etymologist would do well to lay to heart:

ναφε καὶ μέμνασ' ἀπιστεῖν, ἄρθρα ταῦτα τῶν φρενῶν.

ADDENDUM.

The more noteworthy of the supplementary comparisons of Greek and Keltic words added by Stokes in 'Beitr.' viii. 351 are the following:—

ἄρδις 'point of a stake,' 'prong,' Ir. aird 'corner-point.'
γοργός 'vehement,' 'savage,' OIr. garg 'fierce' (Windisch.
'Ztschr.' xxi. 395).

lσχνός 'dry,' 'lean,' Ir. sesc, Cymr. hysp 'dry,' 'barren;' also Ir. sescen 'bog,' 'moor' (as being barren). Cp. Fick i³. 799, who also connects the Lat. siccu-s.

A remarkably isolated word is the OIr. cinteir (Sg. 50°) Armen. quentr 'calcar;' it is certainly connected with the Gk. κέντρον, and appears to be Old Keltic (for at Z°. 781 the Centrones are rightly compared), but an original ent always became ét in Irish (e. g. Ir. cét = Lat. centum). Stokes starts from a primary cent-tri, but it is not clear that this could become cinteir. Is there any help to be got from the Vedic cnath (cnathati, cnathajati) 'break through,' 'pierce?' Cp. Fick i³. 546. In that case the Irish cent- might be a metathesized cnet.

λόγχη, OIr. laigen 'lance;' Laigin (nom. pl.) the inhabitants of Leinster (Fick ii³, 216).

μάταιος, OIr. in-made, in-madæ 'sine causa' Z². 609 (in is in Old-Irish prefixed to form adverbs).

μέμφομαι, OIr. mebul 'disgrace.'

οὐτάω 'wound,' ώτειλή 'wound' (Fick i³. 769) may very well be connected with the OIr. foth, acc. pl. futhu ocus airde cruche 'stigmata et signa crucis' Z². 1005; it is more doubtful perhaps whether it is also connected with co fotheasa Gl. to 'nec hoc dico quo praecessores meos mordeam' Ml. 3².

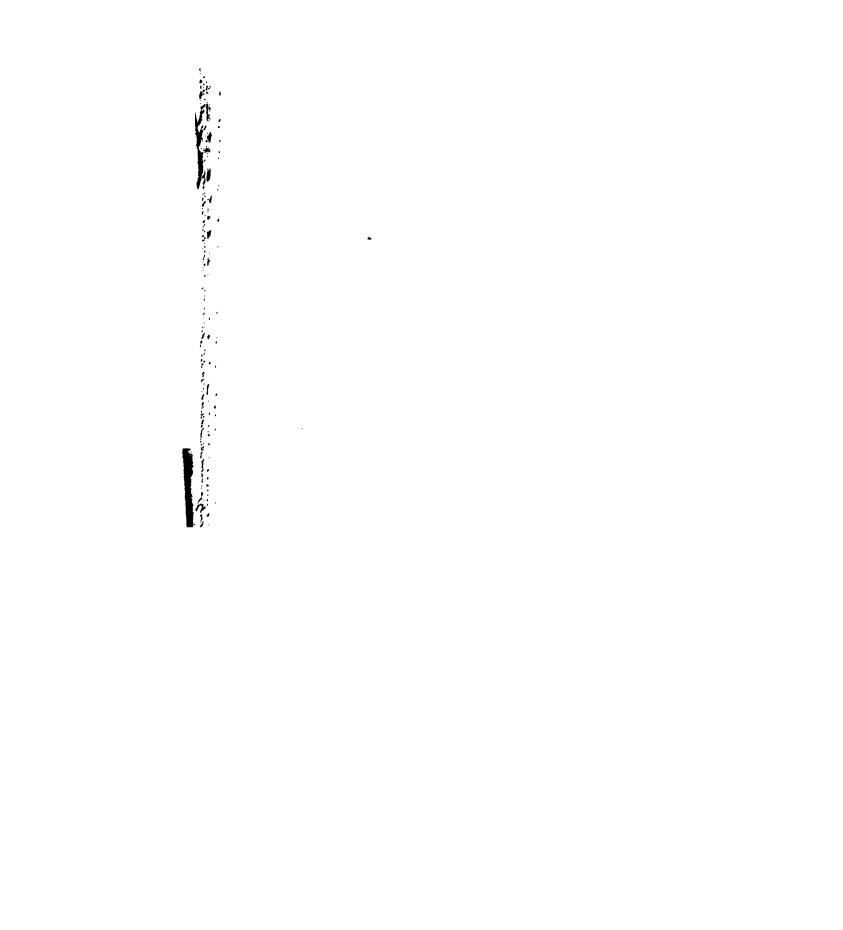
τητάω 'lack' (mentioned under No. 221), OIr. táid 'thief,'

táin bó 'cattle-stealing,' Skt. tājú-s 'thief.'

From the second edition of the reprinted 'Remarks,' p. 43,

we get the following:-

εὖρον, OIr. fúar 'inveni.' It can hardly be right to identify these two forms directly with each other, for the 1st sing. fúar, 3rd fúair, 3rd pl. fúaratar shows the Irish perfect inflexion. To fúar as pret. pass. belongs frith, fofrith 'inventum est.' The utmost to be got from this is an Irish rt. far, i. e. var, compounded with fo (sub.) fo-far, blended in the perf. to fúar; the pret. pass. frith without the preposition, and fo-frith with it contains the weakened root, in which the ri would correspond to a Skt. r, although on the analogy of breth (cp. Skt. bhrta), pret. pass. of berim 'I carry,' we should expect freth. As to the Gk. $\epsilon i \rho$ - there is no deciding how we ought to regard it,—possibly, as a 'petrified' vevr-.



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